

# EXHIBIT 9

# *Christy's*<sup>TM</sup>



April 30, 2007

## WATERWORKS

**(800) 258-4583**  
**tchristy.com**

## WHY CHRISTY'S™?

The overall mission of Christy's™ is to be the premier supplier to the wholesale waterworks industry. We pride ourselves on delivering a full range of superior products and supporting them with an unwavering commitment to customer satisfaction.

We have continuously invested in facilities and systems to ensure doing business with Christy's™ is easy, enjoyable and profitable. We strive to outperform the competition by having the most knowledgeable and tenured professionals in the industries we serve.

Christy's™ accountability to our customers and our industry is unsurpassed. We actively participate in industry associations, trade shows and training seminars. We also regularly contribute to scholarship and industry improvement initiatives. When you choose Christy's™ as a business partner, you've chosen a single source provider dedicated to making your business and your industry better.

**You deserve Profits, Performance and Accountability. We Deliver!**

**PROFITS  
PERFORMANCE  
ACCOUNTABILITY**

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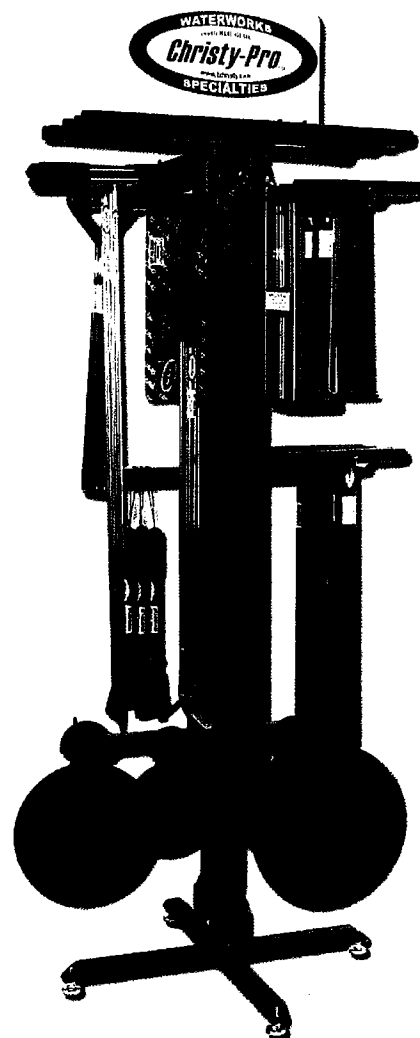
## LET CHRISTY'S™ SET YOU UP!

Christy's™ Waterworks Tool Merchandiser Rack puts professional grade tools in front of your customers.

The Waterworks Rack was designed to house the most commonly used tools for Waterworks Professionals in a space that occupies a small footprint in your location.

Christy's™ Waterworks Tools are of the highest quality and are designed by professionals for professionals. Choose a pre-configured rack from Christy's™ or make your own assortment of tools. See pages 50-54 for more information on Christy's™ Tool Rack and Waterworks Tools.

Contact Christy's™ to learn more about our Waterworks Tool Merchandiser Rack and our complete line of Waterworks Tools.



Christy's™ Waterworks Tool Merchandiser Rack was made to put the most commonly used tools for Waterworks Professionals in front of your customers in a convenient and easily accessible format.

## TRADEMARKS

The following trademarks are used in this catalog and are registered by the company shown in bold.

**3M** - 3M  
**Arch Chemicals** - CCH  
**Captor** - Captor5  
**Christy's** - Red Hot Blue Glue  
**Klein Tools** - Klein  
**Krylon** - Krylon  
**Lenox** - Lenox  
**Norweco** - Norweco

**Permatex** - Fast Orange, Permatex  
**The Tapecoat Company** - Tapecoat  
**Thermoweld** - Thermoweld  
**The Trenton Corporation** - Trenton  
**WD-40** - WD 40

**TABLE OF CONTENTS**

|   |           |
|---|-----------|
| <b>Corrosion Protection Products</b> .....  | <b>2</b>  |
| <b>Specialty Tapes &amp; Coatings</b> .....   | <b>10</b> |
| <b>Specialty Gaskets</b> .....  | <b>12</b> |
| <b>Packaged Bolt Sets</b> .....   | <b>13</b> |
| <i>CL150 2" - 12"</i>   |           |
| <b>Fire Valves &amp; Accessories</b> .....  | <b>14</b> |
| <b>Marking Products</b> .....   | <b>16</b> |
| <i>Marking Tapes, Marking Posts, Marking Paint</i>  |           |
| <b>Polyethylene Encasement/Sheeting &amp; Buried Copper Tube Sleeving</b> .....   | <b>20</b> |
| <b>Backflow Security/Freeze Blankets</b> .....  | <b>23</b> |
| <b>Water Specialty Products</b> .....   | <b>24</b> |
| <b>Accessories</b> .....  | <b>27</b> |
| <i>Gauges, Tracer Wire, Chip Brushes, Tape Measures, Duct Tape, PTFE Tape, Thread Sealant, Pro-Wipes™, Pipewrap Tape, Pipewrap Primer, Repair Kits, Pipe Lubricant, Handi-Pumps</i>   |           |
| <b>Hand Tool Accessories</b> .....  | <b>32</b> |
| <i>Gloves, Cutting Tools, Pliers, Tool Belt, Buckets, Cut-Off Wheels, Handsaws, Hacksaws, Aviation Snips, Lenox® Holesaws, Wrenches, Channellock Pliers, Shovels, Brooms, Tie Downs</i>   |           |
| <b>Striking Tools</b> .....   | <b>40</b> |
| <b>Asphalt Tools</b> .....  | <b>41</b> |
| <b>Drain/Filter Fabric, Gravel Bags, Drain-EEZ</b> .....  | <b>42</b> |
| <b>Dewatering Bags</b> .....  | <b>45</b> |
| <b>Barrier Fencing</b> .....  | <b>46</b> |
| <b>Safety &amp; Job-Site Accessories</b> .....  | <b>47</b> |
| <i>Clean-up Bags, Safety Cones, Vests, Earplugs, Neomask, Safety Glasses</i>  |           |
| <b>Warehouse Supplies</b> .....   | <b>48</b> |
| <b>Warning Tapes</b> .....  | <b>49</b> |
| <b>Waterworks Tool Rack</b> .....   | <b>50</b> |
| <b>Waterworks Tools</b> .....   | <b>51</b> |
| <i>Wrenches, Lid Removers, Hooks, Soil Probes, Meter Keys, Digging Bars, Water Service Replacement Kits, Hydrant Slings, Valve Lifters, Test Plates, Pipe Carts, Valve Stem Extensions, Pipe Supports, Waterline Replacement Kits</i> |           |
| <b>Saddle Tap XL</b> .....  | <b>55</b> |
| <b>Air Valve Accessories</b> .....  | <b>56</b> |
| <b>Waterworks Custom Fabrication</b> .....  | <b>57</b> |
| <b>Lubricants &amp; Protectants</b> .....   | <b>60</b> |
| <b>Striking Wrenches</b> .....  | <b>61</b> |
| <b>Specialty Tools</b> .....  | <b>62</b> |
| <b>Lifting Tools</b> .....  | <b>66</b> |
| <b>Water Test Products</b> .....  | <b>69</b> |
| <b>Pipe O.D. Chart</b> .....  | <b>77</b> |
| <b>Index</b> .....  | <b>78</b> |

**TERMS AND CONDITIONS**

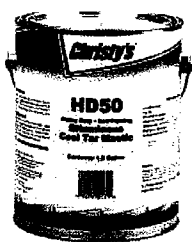
**ORDERS:** Possession of a price list does not constitute an offer to sell. Prices will be those in effect at the time of shipment. Minimum order of \$100.00 net, and can be combined with other Christy's™ products.

**TERMS:** Terms of payment are Net 30 Days from date of invoice. Payment is to be made in U.S. funds.

**FREIGHT:** All prices are F.O.B. point of origin. Freight will be prepaid and allowed on net orders of \$1,000 or more, to one destination via shipper's choice of routing, within the continental United States. However, specifically identified items are F.O.B. Christy's™. Less than \$1,000 net order shipments will be F.O.B. point of origin, freight will be prepaid and added. Net shipments of \$1,000 or more outside of the continental United States will be prepaid to the U.S. border. Some items do not qualify for prepaid freight.

**FREIGHT SHORTAGES:** All products sold by Christy's™ are selected and checked by separate people. In the event of a shortage, you must notify Christy's™ within five days of receipt. Product claims resulting in shortage or damage from shipping must be addressed with the freight carrier, not Christy's™.

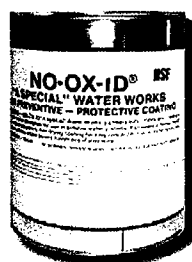
**WARRANTY:** Christy's™ warranty is limited to replacement of the defective product, solely at the discretion of the manufacturer.

**CORROSION PROTECTION PRODUCTS****CHRISTY'S™ HIGH SOLID ONE-PART COAL TAR MASTIC**

Christy's™ HD50™ is manufactured from ultra-high build self-priming bituminous coal tars and solvents to produce a general maintenance coating of superior quality and usability. The product is ideally suited for the corrosion protection of below grade metallic pipe and couplings. Meets new AQMD standard.

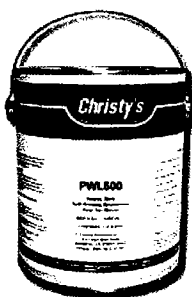
**Comparable to Carboline® Bitumastic 50.**

**Sold in Case Quantities Only.**

**NO-OX-ID ULTRA-HIGH PERFORMANCE RUST INHIBITOR**

Stop rust and block corrosion with NO-OX-ID® rust proofing products. This rust preventive forms a barrier coating to insure corrosion and rust prevention in severe corrosive and marine environments. These anti-corrosion materials contain an active corrosion inhibitor system that will prevent rust with just one coating application. NO-OX-ID is not a paint, it is a rust preventive metal

treatment that can work in highly corrosive, high humidity and high salt areas where paints repeatedly fail.



NO-OX-ID® "PWL 600" is heavy-duty grease type rust preventive designed primarily for hot applications. This versatile coating leaves a thick, dark amber, semi-transparent, non-drying film that is easy to apply and easy to remove. In one coat, NO-OX-ID® "PWL 600" gives maximum protection from water, weathering and corrosive atmospheres.

**Sold in Case Quantities Only.**

**AWWA C210 2-PART COAL TAR EPOXY**

HD300 is a 2-part, 2-can pre-measured coal tar epoxy kit equating to 1-gallon (requires mixing of parts A & B). Manufactured using coal tar pitches with exceedingly high moisture resistance for the sewage plant, barge, ship bottom and concrete industries. This material is designed to be used in areas subject to harsh immersion environments. HD300 is self-priming and easily applied by spray after substrate has been blasted to SSPC SP6 tolerances. This material is specifically recommended for exteriors of buried tanks and piping.

| Description                 | Part Number   | Case Qty. | List Price (Each) |
|-----------------------------|---------------|-----------|-------------------|
| NO-OX-ID - 1 Gallon         | NO-OX-ID-1-VV | 4         | \$61.48           |
| NO-OX-ID - 5 Gallons        | NO-OX-ID-5-VV | 1         | \$293.93          |
| NO-OX-ID PWL 600 - 1 Gallon | PWL600        | 4         | \$68.89           |

**TC® OMNIPRIME® SOLVENT**

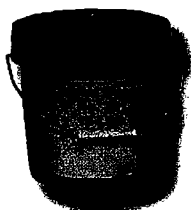
This versatile primer can be used with cold or hot applied tapes and heat shrinkable sleeves to protect from corrosion of metal surfaces on pipe, valves, fittings, mechanical couplings and metal connectors.

For use in above or below ground applications. TC® Omniprime® meets federal standards for health and environmental safety.

**Sold in Case Quantities Only.**

| Description             | Part Number | Case Qty. | List Price (Each) |
|-------------------------|-------------|-----------|-------------------|
| TC Omniprime - 1 Gallon | 281G        | 4         | \$184.63          |

| Description                      | Part Number | Case Qty. | List Price (Each) |
|----------------------------------|-------------|-----------|-------------------|
| Standard Black - 1 Gallon Kit    | HD300-B     | 1         | \$107.60          |
| Special Order Red - 1 Gallon Kit | HD300-R     | 1         | \$116.96          |

**CORROSION PROTECTION PRODUCTS****MG301 METAL GUARD TAPE SYSTEM**

Metal Guard is a buttery-textured, amber-colored grease that adheres to all metal surfaces. It is water resistant and inhibits oxidation for long service life. This formula's resistance to moisture provides an excellent barrier for guarding metal surfaces against weathering and corrosion. Metal Guard 301 conforms to the latest Cal Water specifications.

| Description | Part Number | Case Quantity | List Price (Each) |
|-------------|-------------|---------------|-------------------|
| 15 Lbs.     | MG301       | 1             | \$62.35           |

**BW4 BIT WRAP ASPHALT TAPE**

Bit Wrap is a durable woven glass filament mesh that has been treated with asphalt. It is ideal for applications requiring a strong, lightweight reinforcement material. This two-component system (BW4 over MG301) provides both superior corrosion and abrasion protection. Bit Wrap conforms to the latest Cal Water specifications.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 4" x 150'   | BW4         | 12        | \$23.22           |

MG301 and the BW4 Tape System entail a two-component installation. Apply the MG301 and then spiral wrap the pipe with the Bit Wrap tape.

**PERMATEX® HEAVY-DUTY RUBBERIZED SPRAY UNDERCOAT**

Permatex® heavy-duty spray undercoat is rubberized for maximum durability. Seals, protects and insulates. Suggested Applications: Flange bolts and T-Head assemblies. Other uses include sealing gutters, roofs, drain systems and tree pruning.

| Description               | Part Number | Case Qty. | List Price (Each) |
|---------------------------|-------------|-----------|-------------------|
| Permatex® Spray Undercoat | 81833       | 12        | \$5.85            |

**ROYSTON #747 PRIMER FOR HANDY-CAP INSTALLATION**

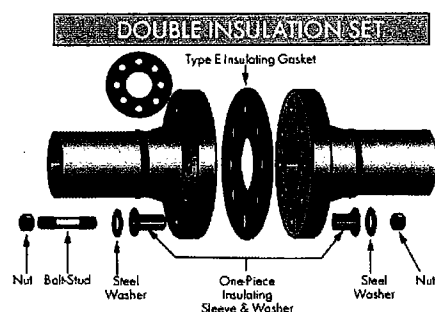
Royston primer forms a strong mechanical bond to steel and creates an excellent base for a variety of coatings and tapes. Made from phenolic, synthetic resin, rubber and elastomeric bases, the primer can withstand acids, alkalis and many corrosive chemicals. Maintains excellent adhesion under adverse conditions.

See our Cathodic Insulation Covers on page 6.

| Description         | Part Number | Case Qty. | List Price (Each) |
|---------------------|-------------|-----------|-------------------|
| Royston #747 Primer | 747-A       | 12        | \$35.18           |

**SPECIALTY FLANGE INSULATION KITS**

Gasket kits consist of an "EN" NEO faced phenolic gasket, double phenolic/steel washers, and full-length mylar sleeves. 150 Lb. ANSI.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 4" Kit      | FIK4        | 1         | \$49.66           |
| 6" Kit      | FIK6        | 1         | \$59.70           |
| 8" Kit      | FIK8        | 1         | \$69.24           |
| 10" Kit     | FIK10       | 1         | \$105.87          |
| 12" Kit     | FIK12       | 1         | \$122.97          |
| 14" Kit     | FIK14       | 1         | \$149.67          |
| 16" Kit     | FIK16       | 1         | \$189.08          |
| 18" Kit     | FIK18       | 1         | \$207.79          |
| 20" Kit     | FIK20       | 1         | \$258.35          |
| 24" Kit     | FIK24       | 1         | \$306.50          |

**CORROSION PROTECTION PRODUCTS****HIGH POTENTIAL MAGNESIUM ANODES**

Standard anodes are packaged with 10 feet of #12 AWG solid or stranded copper lead wire, THWN/THNN. Available in bare or packaged form. Packaged anodes are pre-packed in either bags or cardboard cartons in low resistivity, quick wetting, prepared backfill consisting of 75% hydratred gypsum, 20% bentonite, and 5% sodium sulfate.

These Magnesium Anodes meet or exceed **ASTM B-843, AZ63B, Type H1A**. Magnesium anodes are made from Grade A alloy at 5.3 - 6.7% Aluminum, 2.5 - 3.5% Zinc, 0.15% Manganese minimum, 0.003% Iron maximum, 0.002% Nickel maximum, 0.02% Copper maximum, 0.10% Silicon maximum, 0.30% other impurities maximum, with Magnesium contained in the balance. Custom lead wires are available.

**Quality manufactured to ISO 9001 standards.**

**No prepaid freight allowed.**

| Description        | Packaged Weight | Part Number    | Case Qty. | List Price (Each) |
|--------------------|-----------------|----------------|-----------|-------------------|
| 3 Lb. Anode        | 8 Lbs           | GA-MG-3-HP     | 5         | Call              |
| 5 Lb. Anode        | 17 Lbs          | GA-MG-5-HP     | 5         | Call              |
| 9 Lb. Anode        | 27 Lbs.         | GA-MG-9-HP     | 2         | Call              |
| 17 Lb. Anode       | 45 Lbs.         | GA-MG-17-HP    | 2         | Call              |
| 20 Lb. Anode       | 50 Lbs.         | GA-MG-20-HP    | 2         | Call              |
| 32 Lb. Anode - 28" | 70 Lbs.         | GA-MG-32-HP-28 | 1         | Call              |
| 40 Lb. Anode       | 96 Lbs.         | GA-MG-40-HP    | 1         | Call              |
| 48 Lb. Anode       | 100 Lbs.        | GA-MG-48-HP    | 1         | Call              |
| 60 Lb. Anode       | 125 Lbs.        | GA-MG-60-HP    | 1         | Call              |

**ZINC SOIL ANODES**

Zinc Anodes for underground use are produced in a variety of sizes and weights. All anodes are packaged with 10 feet of #12 gauge solid or stranded THHN lead. Packaged anodes are pre-packed in either bags or cardboard cartons in low resistivity, quick wetting, prepared backfill consisting of 75% hydratred gypsum, 20% bentonite, and 5% sodium sulfate. Available in bare unpackaged form.

These Zinc Anodes meet or exceed **ASTM B-418-95 Type II**. Soil zinc anodes are made from 99.99% pure special high grade zinc with the remaining material consisting of 0.0014% Iron, 0.003% Lead, 0.002% Copper, 0.005% Aluminum and 0.003% Cadmium. Custom lead wires are available.

**Quality manufactured to ISO 9001 standards.**

**No prepaid freight allowed.**

| Description  | Packaged Weight | Part Number | Case Qty. | List Price (Each) |
|--------------|-----------------|-------------|-----------|-------------------|
| 5 Lb. Anode  | 20 Lbs          | GA-S-5      | 5         | Call              |
| 12 Lb. Anode | 32 Lbs.         | GA-S-12     | 2         | Call              |
| 15 Lb. Anode | 36 Lbs.         | GA-S-15     | 2         | Call              |
| 18 Lb. Anode | 55 Lbs.         | GA-S-18     | 2         | Call              |
| 30 Lb. Anode | 67 Lbs.         | GA-S-30A    | 2         | Call              |
| 45 Lb. Anode | 100 Lbs.        | GA-S-45     | 1         | Call              |
| 60 Lb. Anode | 120 Lbs.        | GA-S-60     | 1         | Call              |

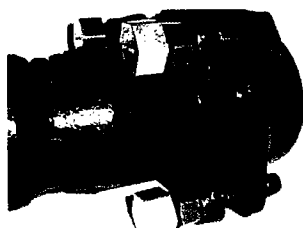


**CORROSION PROTECTION PRODUCTS****MAGNESIUM SPIKES**

Drive-in Spike Anodes are used in low current requirement applications, such as gas distribution risers and water meter protection. The spikes are manufactured from extruded magnesium rod fitted with an impact resistant HDPE cap. The 3 feet of #12 lead wire (THHN) is silver soldered to the core and the connection is coated with an RTV Silicone and the cap is fitted onto the anode. Lead wire is connected to an adjustable stainless clamp that has a penetrating screw. Typical oxidation potential in most environments is 1.4 to 1.5 volts.

**No prepaid freight allowed.**

| Description                                       | Part Number    | Case Qty. | List Price (Each) |
|---|----------------|-----------|-------------------|
| 0.5 Lb Magnesium Spike - .84" Dia. x 12" Length   | GA-MG-0.5DR    | 1         | \$31.11           |
| 1.0 Lb Magnesium Spike - 1.315" Dia. x 12" Length | GA-MG-1.0DR    | 1         | \$40.00           |
| 1.5 Lb Magnesium Spike - 1.315" Dia. x 18" Length | GA-MG-1.5DR    | 1         | \$51.11           |
| 2.5 Lb Magnesium Spike - 1.315" Dia x 30" Length  | GA-MG-1.315X30 | 1         | \$64.44           |

**SACRIFICIAL THREADED ZINC CAPS**

Sacrificial zinc protection caps stop costly corrosion of buried valves, fittings and mechanical joints on water, oil and gas systems. Zinc caps install directly to the bolt and offer excellent cathodic protection to iron mechanical joint fitting and gland ring

assemblies. Increasing the number of zinc caps used on a system will increase the degree and length of protection. Alloy specifications: MIL-A-18001J, ASTM B418-80. Additional size zinc caps are also available.

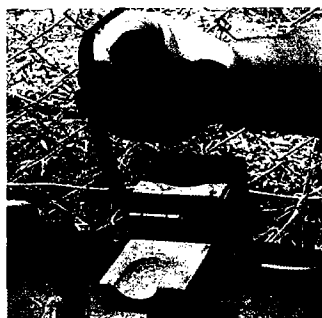


| Description             | Part Number | Case Qty. | List Price (Each) |
|-------------------------|-------------|-----------|-------------------|
| 5/8" Zinc Cap, 2.5 ozs. | P258        | 100/1800  | \$5.22            |
| 3/8" Zinc Cap, 2.5 ozs. | P238        | 100/1800  | \$5.22            |
| 1/2" Zinc Cap, 2.5 ozs. | P205        | 100/1800  | \$5.22            |
| 1/2" Zinc Cap, 6 ozs.   | PC05        | 100/1800  | \$6.14            |
| 5/8" Zinc Cap, 6 ozs.   | PC58        | 100/1800  | \$6.14            |
| 3/4" Zinc Cap, 6 ozs.   | PC75        | 100/1800  | \$6.14            |
| 7/8" Zinc Cap, 6 ozs.   | PC78        | 100/1800  | \$6.14            |
| 1" Zinc Cap, 6 ozs.     | PC100       | 100/1800  | \$6.14            |

**CATHODIC INSULATION COVERS**

Designed to protect cable connections used in the cathodic protection of pipelines, tanks and other metal surfaces where an exterior cable connection has been installed.

| Description  | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| Royston Cathodic Insulation Handy-Cap Cover: 4" x 4" | RHC44       | 24        | \$7.57            |

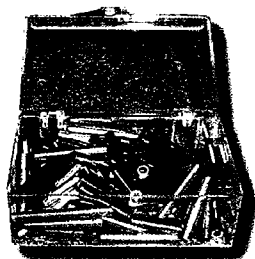
**CAD WELDER MOLDS CABLE TO HORIZONTAL SURFACE**

**Call for Model & Price**

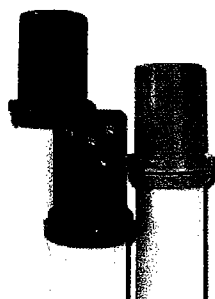
For all horizontal and vertical welders (need wire and pipe size) call our product specialists.

**FOR CADWELDS TO CAST IRON & DUCTILE IRON PIPING OR VERTICAL STEEL APPLICATIONS, CALL CHRISTY'S™.**



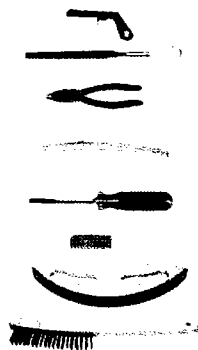
**CORROSION PROTECTION PRODUCTS****ACCESSORIES - COPPER THERMOWELD ADAPTER SLEEVES**

| Description                                    | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| 10-14 Sol/ 12-14 Str Gauge - .156 OD - .111 ID | CA-200      | 100       | \$ .48            |
| 3-4 Sol/ 4-5 Str Gauge - .302 OD - .246 ID     | CA-207      | 100       | \$1.74            |
| 8-10 Sol/ 9-10 Str Gauge - .203 OD - .14 ID    | CA-208      | 100       | \$ .59            |
| 6-8 Sol/ 7-10 Str Gauge - .227 OD - .177 ID    | CA-201      | 100       | \$ .50            |

**TERMINAL ENCLOSURE TEST STATIONS**

Terminal enclosure for cathodic protection, telecommunications bonding and grounding, and other utility line applications. Each unit comes standard with 5 stainless steel terminals. Test station manufactured of Lexan® polycarbonate high-impact plastic and stainless steel hardware. Sold cap only.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Orange Cap  | PM-TS3-6ORG | Bulk      | \$28.71           |
| Red Cap     | PM-TS3-6RD  | Bulk      | \$28.71           |
| Blue Cap    | PM-TS3-6BLU | Bulk      | \$28.71           |
| Yellow Cap  | PM-TS3-6YW  | Bulk      | \$28.71           |
| White Cap   | PM-TS3-6WHT | Bulk      | \$28.71           |
| Black       | PM-TS3-6BLK | Bulk      | \$28.71           |

**CAD WELDER ACCESSORIES**

| Description                | Part Number | List Price (Each) |
|----------------------------|-------------|-------------------|
| 8" File                    | 38-0304-00  | \$50.03           |
| Wire Brush                 | 38-0305-00  | \$15.00           |
| Card Cloth Brush           | 38-0306-00  | \$12.17           |
| Crimping Tool              | 38-0307-00  | \$56.79           |
| Flint Gun Cad Weld Striker | 38-0309-00  | \$8.72            |
| Mold Brush                 | 38-3922-00  | \$18.78           |

**GROUND ROD - COPPER BONDED**

High carbon steel with an electrolytically applied copper finish in 1/2", 5/8", 3/4" and 1" diameters in varying lengths. Available in single-type and sectional ground rod style.

When driven into the ground, the copper bonded ground rod provides a ground for substations, towers, homes, buildings and all other structures containing electrical products. UL Listed with a .010" copper electroplated finish on high-quality, high-carbon steel to produce a corrosion resistant product in a wide variety of environments.

**GROUND ROD DRIVING SLEEVES**

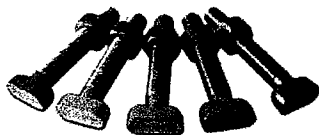
Ground rod driving sleeves are placed over the top of a ground rod while driving it into the ground, preventing the top from mushrooming or flaring out.



| Description      | Part Number | Case Qty. | List Price (Each) |
|------------------|-------------|-----------|-------------------|
| 1/2" Steel       | 38-3662-01  | 1         | \$30.16           |
| 3/4" Copper Clad | 38-3662-04  | 1         | \$46.50           |
| 3/4" Steel       | 38-3662-05  | 1         | \$53.26           |
| 1" Copper Clad   | 38-3662-06  | 1         | \$48.94           |
| 1" Steel         | 38-3662-07  | 1         | \$42.18           |

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 1/2" x 8'   | GR508       | 1         | Call              |
| 1/2" x 10'  | GR5010      | 1         | Call              |
| 5/8" x 6'   | GR586       | 1         | Call              |
| 5/8" x 8'   | GR588       | 1         | Call              |
| 5/8" x 10'  | GR5810      | 1         | Call              |
| 3/4" x 8'   | GR758       | 1         | Call              |
| 3/4" x 10'  | GR7510      | 1         | Call              |
| 1" x 10'    | GR10010     | 1         | Call              |

No prepaid freight allowed.

**CORROSION PROTECTION PRODUCTS****304 STAINLESS STEEL T-HEAD BOLT FOR MECHANICAL JOINTS**

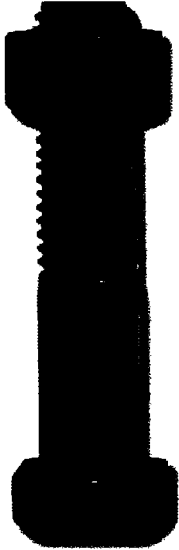
304 Stainless Steel T-Head Bolts for mechanical joints are ANSI/AWWA/A21.11-90 certified. In assembling stainless steel T-Head Bolts and Nuts it is essential that all surfaces are kept extremely clean and that an anti-seize compound is applied to the surfaces of the threads.

| Description   | Gland Size | Required Quantity | Recommended Torque | Part Number | Case Qty. | List Price (Each) |
|---------------|------------|-------------------|--------------------|-------------|-----------|-------------------|
| 3/4" X 3-1/2" | 4"         | 4                 | 75 - 90 Lbs.       | TH304-3435  | 50        | \$13.84           |
|               | 6"         | 6                 | 75 - 90 Lbs.       |             |           |                   |
| 3/4" x 4"     | 8"         | 6                 | 75 - 90 Lbs.       | TH304-3440  | 50        | \$14.42           |
|               | 10"        | 8                 | 75 - 90 Lbs.       |             |           |                   |
|               | 12"        | 8                 | 75 - 90 Lbs.       |             |           |                   |
| 3/4" x 4-1/2" | 14"        | 10                | 75 - 90 Lbs.       | TH304-3445  | 50        | \$15.01           |
|               | 16"        | 12                | 75 - 90 Lbs.       |             |           |                   |
|               | 18"        | 12                | 75 - 90 Lbs.       |             |           |                   |
|               | 20"        | 14                | 75 - 90 Lbs.       |             |           |                   |
| 3/4" x 5"     | 24"        | 16                | 75 - 90 Lbs.       | TH304-3450  | 50        | \$15.40           |
| 1" x 6"       | 30"        | 20                | 100 - 120 Lbs.     | TH304-16    | Bulk      | Call              |
|               | 36"        | 24                | 100 - 120 Lbs.     |             |           |                   |

**316 STAINLESS STEEL T-HEAD BOLT FOR MECHANICAL JOINTS**

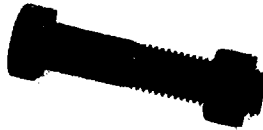
316 Stainless Steel T-Head Bolts for mechanical joints are ANSI/AWWA/A21.11-90 certified. In assembling stainless steel T-Head Bolts and Nuts it is essential that all surfaces are kept extremely clean and that an anti-seize compound is applied to the surfaces of the threads.

| Description   | Gland Size | Required Quantity | Recommended Torque | Part Number | Case Qty. | List Price (Each) |
|---------------|------------|-------------------|--------------------|-------------|-----------|-------------------|
| 3/4" X 3-1/2" | 4"         | 4                 | 75 - 90 Lbs.       | TH316-3435  | 50        | \$15.98           |
|               | 6"         | 6                 | 75 - 90 Lbs.       |             |           |                   |
| 3/4" x 4"     | 8"         | 6                 | 75 - 90 Lbs.       | TH316-3440  | 50        | \$16.57           |
|               | 10"        | 8                 | 75 - 90 Lbs.       |             |           |                   |
|               | 12"        | 8                 | 75 - 90 Lbs.       |             |           |                   |
| 3/4" x 4-1/2" | 14"        | 10                | 75 - 90 Lbs.       | TH316-3445  | 50        | \$17.15           |
|               | 16"        | 12                | 75 - 90 Lbs.       |             |           |                   |
|               | 18"        | 12                | 75 - 90 Lbs.       |             |           |                   |
|               | 20"        | 14                | 75 - 90 Lbs.       |             |           |                   |
| 3/4" x 5"     | 24"        | 16                | 75 - 90 Lbs.       | TH316-3450  | 50        | \$17.93           |
| 1" x 6"       | 30"        | 20                | 100 - 120 Lbs.     | TH316-16    | Bulk      | Call              |
|               | 36"        | 24                | 100 - 120 Lbs.     |             |           |                   |

**CORROSION PROTECTION PRODUCTS****CHRISTY'S™ BLUE BOLTS FOR CORROSION RESISTANCE**

Christy's Blue Bolts are protected with a coating system that shows no signs of corrosion after 1,000 hours of salt spray testing (ASTM-B-117). Plain steel, zinc plated, and hot dip galvanized bolts all show significant degrees of corrosion and rust when subjected to the same testing.

The unique coating system is achieved with careful surface preparation. Abrasive blasting, a baked aerocote nickel primer and multiple electrostatically sprayed coats of our fluoropolymer blue coating are baked on the bolts at 425°F. The blue coating combines a wide range of mechanical and chemical properties ideally suited to the wide range of fasteners used in waterworks applications. It offers low friction, abrasion resistance, and protection against corrosion and chemicals. The fasteners are easily tightened and removed.

**CHRISTY'S™ BLUE BOLTS - PACKAGED, CL 150, COATED FLANGE BOLT SETS**

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 4"          | BFS4        | 1         | \$89.97           |
| 6" - 8"     | BFS68       | 1         | \$118.76          |
| 10" - 12"   | BFS1012     | 1         | \$214.13          |
| 14"         | BFS14       | 1         | \$266.31          |
| 16"         | BFS16       | 1         | \$352.68          |
| 18"         | BFS18       | 1         | \$451.64          |
| 20"         | BFS20       | 1         | \$608.19          |
| 24"         | BFS24       | 1         | \$791.72          |

**CHRISTY'S™ BLUE BOLTS - PACKAGED, COATED - T-HEAD BOLTS**

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 4"          | BTH4        | 1         | \$70.18           |
| 6"          | BTH6        | 1         | \$105.26          |
| 8"          | BTH8        | 1         | \$113.36          |
| 10" - 12"   | BTH1012     | 1         | \$145.75          |
| 14"         | BTH14       | 1         | \$194.33          |
| 16"         | BTH16       | 1         | \$229.42          |
| 18"         | BTH18       | 1         | \$229.42          |
| 20"         | BTH20       | 1         | \$267.21          |
| 24"         | BTH24       | 1         | \$331.98          |

**CORROSION PROTECTION PRODUCTS****DIRECT BURIAL GROUND ROD CLAMPS**

Connects grounding conductor to copper ground rod. Approved for direct burial in the earth and concrete. Contains a bronze hex-headed bolt. Manufactured from high-strength, corrosion resistant bronze.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 1/2"        | GRC50       | 1         | Call              |
| 5/8"        | GRC58       | 1         | Call              |
| 3/4"        | GRC75       | 1         | Call              |
| 1"          | GRC100      | 1         | Call              |

**GROUNDING CLAMPS****BRONZE GROUNDING CLAMPS - 10 SOL-2 STR GAUGES UL/CSA**

| Description      | Part Number | Case Qty. | List Price (Each) |
|------------------|-------------|-----------|-------------------|
| 1/2" - 1" Pipe   | KP1         | 100       | \$5.31            |
| 1-1/4" - 2" Pipe | KP2         | 50        | \$12.41           |
| 2-1/2" - 4" Pipe | KP4         | 1         | \$59.00           |

**CATHODIC PROTECTION CABLE**

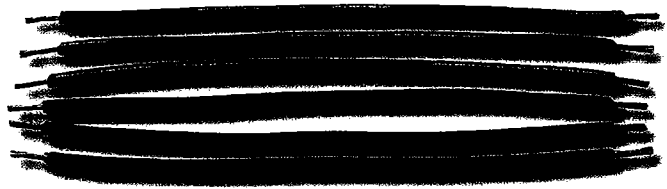
| Description               | Part Number | Case Qty. | List Price (Each) |
|---------------------------|-------------|-----------|-------------------|
| 8 Gauge 7 Stranded HMW/PE | 8CAD500     | 1         | Call              |
| 6 Gauge 7 Stranded HMW/PE | 6CAD500     | 1         | Call              |
| 4 Gauge 7 Stranded HMW/PE | 4CAD500     | 1         | Call              |

No prepaid freight allowed.

**THERMOWELD® POWDER**

Thermoweld® Powder is packed in moisture-resistant plastic cartridges with tight fitting caps. These cartridges and the necessary steel discs are then packed in boxes that are hermetically-sealed to insure dry and fast positive ignition. Thermoweld® Powder comes in two types; one for welding copper to copper, copper to steel and copper to rail and one for welding copper to cast iron. The size and weight (in grams) of the cartridge are marked on each individual cartridge.

Sold in box quantities only.

**JUMPERS/ BONDING CABLES**

Cathodic Jumper Cables are short lengths of insulated copper cable used to electrically connect pipeline joints or multiple pipelines for cathodic protection. Cables are cut to length with the insulation stripped at each end for attachment to the pipeline.

Call Christy's™ for special sizes.

| Description    | Part Number | Case Qty. | List Price (Each) |
|----------------|-------------|-----------|-------------------|
| #2 Gauge x 18" | 2CAD18      | Bulk      | Call              |
| #2 Gauge x 24" | 2CAD24      | Bulk      | Call              |
| #4 Gauge x 18" | 4CAD18      | Bulk      | Call              |
| #4 Gauge x 24" | 4CAD24      | Bulk      | Call              |
| #4 Gauge x 36" | 4CAD36      | Bulk      | Call              |
| #8 Gauge x 18" | 8CAD18      | Bulk      | Call              |

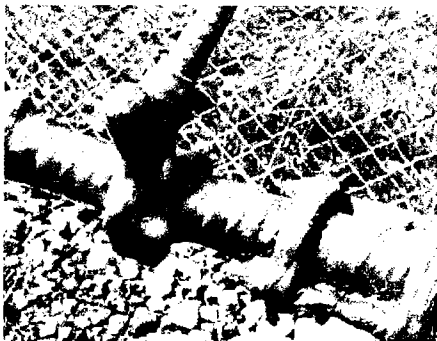
SEE PAGE 6 FOR ADAPTER SLEEVES.

**ALL BRASS GROUNDING CLAMPS**

Christy's all-brass grounding clamps are UL Rated for direct burial applications. UL/FM Approved. Direct Burial rated.

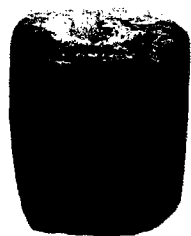
| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 1/2" - 1"   | BGC1        | 25        | Call              |
| 1-1/4" - 2" | BGC2        | 10        | Call              |

| Description                    | Part Number | Box Qty. | List Price (Each) |
|--------------------------------|-------------|----------|-------------------|
| Standard Cartridge - Size #15  | 15P         | 20       | \$3.70            |
| Standard Cartridge - Size #25  | 25P         | 20       | \$5.19            |
| Standard Cartridge - Size #32  | 32P         | 20       | \$5.93            |
| Standard Cartridge - Size #45  | 45P         | 20       | \$6.02            |
| Standard Cartridge - Size #65  | 65P         | 20       | \$6.91            |
| Cast Iron Cartridge - Size #25 | 25CI        | 20       | \$6.07            |
| Cast Iron Cartridge - Size #32 | 32CI        | 20       | \$6.77            |
| Cast Iron Cartridge - Size #45 | 45CI        | 20       | \$7.90            |
| Cast Iron Cartridge - Size #65 | 65CI        | 20       | \$8.49            |

**SPECIALTY TAPES & COATINGS****COLD APPLIED AWWA C209 & WAX TAPES****WAX TAPES AND ACCESSORIES**

| Description                      | Part Number | Case Qty. | List Price (Each) |
|----------------------------------|-------------|-----------|-------------------|
| #1 Wax Tape - 4" x 9'            | 1WXT49      | 24        | \$24.65           |
| #1 Wax Tape - 6" x 9'            | 1WXT69      | 16        | \$27.45           |
| Guard Wrap - 6" x 150'           | GW6X150     | 6         | \$70.89           |
| Poly-ply - 6" x 50'              | PP6X50      | 18        | \$27.27           |
| Temcoat - 3 Gallon Pail          | TM3G        | 1         | \$266.67          |
| Brown Wax Tape Primer - 1 Gallon | WTPB1       | 4         | \$62.41           |

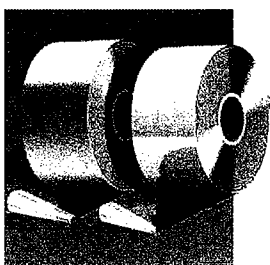
**Sold in Case Quantities Only**



**Trenton Wax Tape**



**Trenton Poly-ply Tape**



**Tapecoat Tape**

**TAPECOAT® CT - COLD APPLIED TAPE COATING**

Tapecoat® CT is a 35 mil cold-applied tape coating with a 7 mil polyethylene film backing and 28 mils of adhesive used for ambient temperature below grade application. Appropriate for coating small to moderate size pipe with a single layer. A 50% overlap may be preferred when coating larger diameter pipe.

| Description          | Part Number | Case Qty. | List Price (Each) |
|----------------------|-------------|-----------|-------------------|
| H50 Black - 2" x 75' | 205021-75   | 12        | \$43.47           |
| H50 Black - 4" x 75' | 205041-75   | 6         | \$86.91           |
| H50 Black - 6" x 75' | 205061-75   | 4         | \$130.38          |

**Sold in Case Quantities Only**

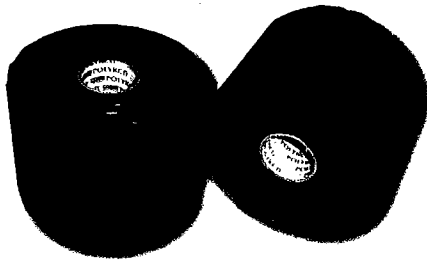
**TAPECOAT® GRAY - COLD APPLIED TAPE COATING**

Tapecoat® Gray coatings are innovative cold applied tapes that exceed all previous performance criteria for protection from corrosion in above and below ground pipelines, girth welds and fittings. Tapecoat incorporates a patented integrated primer into these protective tapes and eliminates the dangers of emissions and hazardous waste associated with the application of liquid primers. Tapecoat Gray can be applied over a wide range of temperatures for the protection of most metal surfaces. Available in 50 or 35 mil.

| Description                | Part Number | Case Qty. | List Price (Each) |
|----------------------------|-------------|-----------|-------------------|
| H50 Gray 50 mil - 2" x 50' | 209021G     | 12        | \$42.61           |
| H50 Gray 50 mil - 4" x 50' | 209041G     | 6         | \$85.22           |
| H50 Gray 50 mil - 6" x 50' | 209061G     | 4         | \$127.86          |

| Description                | Part Number | Case Qty. | List Price (Each) |
|----------------------------|-------------|-----------|-------------------|
| H35 Gray 35 mil - 2" x 75' | 211021G-SW  | 12        | \$42.29           |
| H35 Gray 35 mil - 4" x 75' | 211041G-SW  | 6         | \$84.55           |
| H35 Gray 35 mil - 6" x 75' | 211061G-SW  | 4         | \$125.84          |

**Sold in Case Quantities Only**

**SPECIALTY TAPES & COATINGS****POLYKEN® 930 HIGH-TACK POLY TAPE**

Polyken® 930 Series.

Polyken 930 is a cold applied tape coating system designed for the corrosion protection of field joints, fittings, and specialty piping. The unique adhesive retains conformability over a wide temperature range, yet exhibits an elevated level of sheer resistance, which is a key in-ground performance characteristic. Coupled with the low-density polyethylene backing, this versatile tape system can be applied by hand or with a wrapping machine.

Polyken 930 utilizes a heavy duty adhesive, is conformable to irregular shapes, and acts as a no release liner. Polyken 930 has established in-ground history and is compatible with generic plant coating systems. The Polyken 930 tape coating system exceeds the AWWA C-209 Standard.

| Description           | Part Number | Case Qty. | List Price (Each) |
|-----------------------|-------------|-----------|-------------------|
| 2" x 50' Black 35 mil | 930-35B2    | 24        | \$24.87           |
| 4" x 50' Black 35 mil | 930-35B4    | 12        | \$44.81           |

**Sold in Case Quantities Only**

**POLYKEN® 932 HIGH-TACK POLY TAPE**

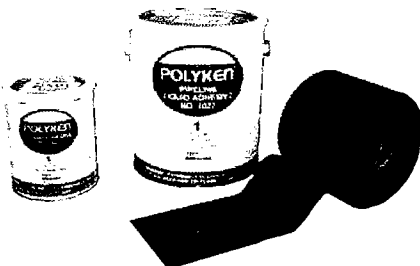
Polyken® 932 Series.

Polyken #932 is a cold applied tape coating system designed for the corrosion protection of field joints, fittings, and specialty piping. The high tack butyl rubber adhesive is designed for high initial adhesion, even during extreme cold weather applications. Coupled with the highly conformable polyethylene backing, the tape system provides superb cold flow and instantaneous bonding to the substrate.

Polyken 932 utilizes a super high tack adhesive, is conformable to irregular shapes, and can be applied by hand or machine. Polyken 932 has established in-ground history and is compatible with generic plant coating systems. The Polyken 932 tape coating system exceeds the AWWA C-209 Standard.

| Description           | Part Number | Case Qty. | List Price (Each) |
|-----------------------|-------------|-----------|-------------------|
| 2" x 50' White 35 mil | 932-35W2    | 24        | \$29.73           |
| 2" x 50' Black 35 mil | 932-35B2    | 24        | \$29.73           |
| 4" x 50' Black 35 mil | 932-35B4    | 24        | \$59.42           |

**Sold in Case Quantities Only**

**POLYKEN® 1027 PRIMER**

Polyken liquid/aerosol adhesive systems are recommended for use with only Polyken coating systems. The liquid adhesive systems consist of butyl based elastomers blended with polymeric resins dissolved in an organic solvent system. They can be used for machine or hand brush application, are non-toxic and non-polluting, and conform to local and National standards. In addition to the excellent adhesion to the pipe substrate and cathodic disbondment resistance, the pipe surface is protected against stress corrosion cracking with industry proven SCC inhibitors.

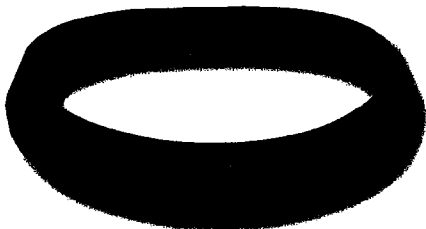
| Description    | Part Number | Case Qty. | List Price (Each) |
|----------------|-------------|-----------|-------------------|
| Quart          | 1027-QT     | 12        | \$49.27           |
| Gallon         | 1027-GL     | 4         | \$95.87           |
| 12 oz. Aerosol | 1027-A      | 12        | \$38.00           |

**Sold in Case Quantities Only**



**SPECIALTY GASKETS****SPECIALTY GASKETS**

Our Specialty Gaskets are AWWA C111 and ANSI 21.11 approved.

**MJ GASKETS FOR MJ FITTINGS & GATE VALVES**

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 4"          | TC-MG4      | 1         | \$1.98            |
| 6"          | TC-MG6      | 1         | \$2.13            |
| 8"          | TC-MG8      | 1         | \$3.51            |
| 10"         | TC-MG10     | 1         | \$4.11            |
| 12"         | TC-MG12     | 1         | \$5.13            |

**TYTON JOINT/ PUSH-ON GASKETS FOR PUSH-ON FITTINGS & VALVES**

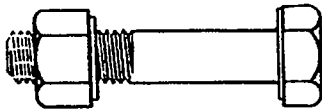
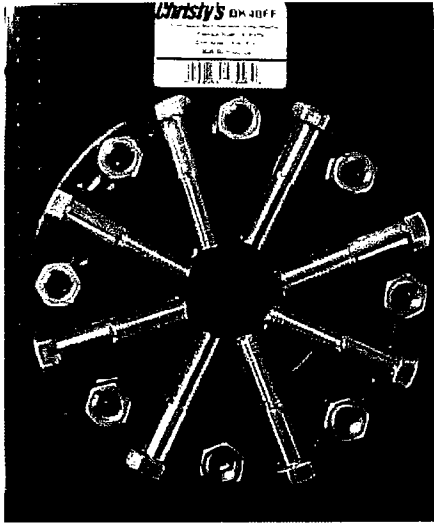
| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 4"          | TJ4         | 100       | \$3.38            |
| 6"          | TJ6         | 60        | \$4.86            |
| 8"          | TJ8         | 45        | \$6.80            |
| 10"         | TJ10        | 35        | \$8.55            |
| 12"         | TJ12        | 24        | \$10.02           |

**CHRISTY'S™ MANHOLE WATERSTOP ADAPTER GASKET**

| Description     | Part Number | Case Qty. | List Price (Each) |
|-----------------|-------------|-----------|-------------------|
| 4" Round Style  | MA4         | 250       | \$3.80            |
| 6" Round Style  | MA6         | 130       | \$4.27            |
| 8" Round Style  | MA8         | 100       | \$5.04            |
| 10" Round Style | MA10        | 100       | \$7.78            |
| 12" Round Style | MA12        | 100       | \$7.91            |
| 15" Round Style | MA15        | 80        | \$11.29           |
| 18" Round Style | MA18        | 1         | \$38.89           |
| 21" Flat Style  | MA21        | 1         | \$44.44           |
| 24" Flat Style  | MA24        | 1         | \$48.89           |
| 27" Flat Style  | MA27        | 1         | \$54.44           |
| 30" Flat Style  | MA30        | 1         | \$55.56           |
| 36" Flat Style  | MA36        | 1         | \$62.22           |
| 42" Flat Style  | MA42        | 1         | \$77.78           |
| 48" Flat Style  | MA48        | 1         | \$93.33           |

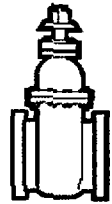
Christy's™ Manhole Waterstop Adapter Gaskets are designed for use on PVC Sewer pipe when installing into a concrete manhole wall. They are made of SBR (styrene, butadiene rubber) elastomeric, an excellent waterstop material. Conforms to ASTM C-923.

**FOR C-900 OR IPS O.D.  
APPLICATIONS, CALL OUR  
PRODUCT SPECIALISTS.**

**CHRISTY'S™ PACKAGED BOLT SETS****CHRISTY'S™ PACKAGED BOLT SETS**

All Christy's Packaged Bolt Sets include zinc plated nuts, bolts and gaskets that conform to AWWA C110. Gaskets are either ring or full-face neoprene. Larger sizes and additional gasket materials (red rubber, asbestos, non-asbestos and garloc) are available as a special order.

Ring gasket and face gasket sets are packaged in blister packs to prevent lost bolts and gaskets and to protect against rust and corrosion. **For cast iron CL150 flanges only.**



| Description   | Part Number | Case Qty. | List Price (Each) |
|---|-------------|-----------|-------------------|
| 2" Flange Kit with Ring Gasket, 4 bolts (5/8" x 2-1/2")     | BK20RG      | 1         | \$8.39            |
| 2" Flange Kit with Face Gasket, 4 bolts (5/8" x 2-1/2")     | BK20FF      | 1         | \$8.96            |
| 2" Flange Kit with No Gasket, 4 bolts (5/8" x 2-1/2")       | BK20BS      | 1         | \$6.20            |
| 2-1/2" Flange Kit with Ring Gasket, 4 bolts (5/8" x 2-3/4") | BK25RG      | 1         | \$8.59            |
| 2-1/2" Flange Kit with Face Gasket, 4 bolts (5/8" x 2-3/4") | BK25FF      | 1         | \$9.12            |
| 2-1/2" Flange Kit with No Gasket, 4 bolts (5/8" x 2-3/4")   | BK25BS      | 1         | \$6.20            |
| 3" Flange Kit with Ring Gasket, 4 bolts (5/8" x 2-3/4")     | BK30RG      | 1         | \$8.76            |
| 3" Flange Kit with Face Gasket, 4 bolts (5/8" x 2-3/4")     | BK30FF      | 1         | \$9.49            |
| 3" Flange Kit with No Gasket, 4 bolts (5/8" x 2-3/4")       | BK30BS      | 1         | \$6.20            |
| 4" Flange Kit with Ring Gasket, 8 bolts (5/8" x 3")         | BK40RG      | 1         | \$15.16           |
| 4" Flange Kit with Face Gasket, 8 bolts (5/8" x 3")         | BK40FF      | 1         | \$16.05           |
| 4" Flange Kit with No Gasket, 8 bolts (5/8" x 3")           | BK40BS      | 1         | \$9.49            |
| 6" Flange Kit with Ring Gasket, 8 bolts (3/4" x 3-1/4")     | BK60RG      | 1         | \$21.36           |
| 6" Flange Kit with Face Gasket, 8 bolts (3/4" x 3-1/4")     | BK60FF      | 1         | \$22.82           |
| 6" Flange Kit with No Gasket, 8 bolts (3/4" x 3-1/4")       | BK60BS      | 1         | \$14.43           |
| 8" Flange Kit with Ring Gasket, 8 bolts (3/4" x 3-1/2")     | BK80RG      | 1         | \$26.47           |
| 8" Flange Kit with Face Gasket, 8 bolts (3/4" x 3-1/2")     | BK80FF      | 1         | \$28.29           |
| 8" Flange Kit with No Gasket, 8 bolts (3/4" x 3-1/2")       | BK80BS      | 1         | \$14.41           |
| 10" Flange Kit with Ring Gasket, 12 bolts (7/8" x 3-3/4")   | BK10RG      | 1         | \$61.49           |
| 10" Flange Kit with Face Gasket, 12 bolts (7/8" x 3-3/4")   | BK10FF      | 1         | \$63.85           |
| 10" Flange Kit with No Gasket, 12 bolts (7/8" x 3-3/4")     | BK10BS      | 1         | \$36.12           |
| 12" Flange Kit with Ring Gasket, 12 bolts (7/8" x 4")       | BK12RG      | 1         | \$66.24           |
| 12" Flange Kit with Face Gasket, 12 bolts (7/8" x 4")       | BK12FF      | 1         | \$69.15           |
| 12" Flange Kit with No Gasket, 12 bolts (7/8" x 4")         | BK12BS      | 1         | \$36.12           |

**FIRE VALVES & ACCESSORIES****CONNECTIONS**

V8480



8480

| Description                      | Part Number | List Price (Each) |
|----------------------------------|-------------|-------------------|
| 4" Check Valve - FNPT x MNPT     | 8480        | \$182.46          |
| 4" Check Valve - Groove x Groove | V8480       | \$182.46          |

**SUPERVISORY SWITCHES**

The 1010206 monitors the open position of an OS&Y type gate valve. Mounts to valves ranging in size from 2" - 12". Contains 2 sets of SPDT (Form C Contacts).



The 1010207 monitors the open position of fire sprinkler control valves of the post indicator, butterfly and other types.

| Description                                   | Part Number | Case Qty. | List Price (Each) |
|---|-------------|-----------|-------------------|
| Outside Screw & Yoke Valve Supervisory Switch | 1010206     | 1         | \$133.33          |
| Control Valve Supervisory Switch              | 1010207     | 1         | \$124.45          |

**ANGLE HOSE VALVES - CAST BRASS - 300 LB.**

Call Christy's™ for additional sizes, configurations and optional finishes.



Female NPT Inlet x Male Hose Thread Outlet

| Description        | Part Number | Case Qty. | List Price (Each) |
|--------------------|-------------|-----------|-------------------|
| 1-1/2" Angle Valve | 5010        | 1         | \$76.68           |
| 2-1/2" Angle Valve | 5015        | 1         | \$119.60          |

**FIRE HOSES - RUBBER LINED**

All prices based on NST thread. 500 lb. test, 300 lb. rated.

| Description                 | Part Number | List Price (Each) |
|-----------------------------|-------------|-------------------|
| Single Jacket 1-1/2" x 50'  | 3415-50     | \$134.00          |
| Single Jacket 1-1/2" x 100' | 3415-100    | \$211.66          |

**CONNECTIONS**

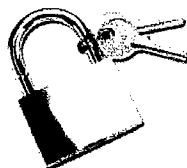
6405



6507



| Description                                       | Part Number | List Price (Each) |
|---|-------------|-------------------|
| 4" x 2-1/2" x 2-1/2" Single Clapper Two-way Inlet | 6405        | \$114.33          |
| 4" x 2-1/2" x 2-1/2" 90° Single Clapper           | 6507        | \$131.54          |
| 2-1/2" Plastic Breakable Caps (pair)              | 6753        | \$3.85            |
| 2-1/2" Aluminum Breakable Caps (pair)             | 6752        | \$10.15           |

**BREAKABLE PADLOCK**

Cadmium plated steel padlock with brittle shackle.

| Description   | Part Number | Case Qty. | List Price (Each) |
|---------------|-------------|-----------|-------------------|
| 5/8"          | 7158        | 24        | \$7.00            |
| 3/4" For PIVS | 7175        | 24        | \$10.97           |

**3-WAY GAUGE TEST VALVE - 1/4"**

300 WOG @ 180° Max. 100% pressure tested. Screwed ends. Bronze body with brass stem, washer and nut. Nitrile o-ring. Aluminum hand wheel with stainless steel screw.



| Description            | Part Number | Case Qty. | List Price (Each) |
|------------------------|-------------|-----------|-------------------|
| 3-Way Gauge Test Valve | 76          | 25        | \$19.22           |

**FIRE VALVES & ACCESSORIES****BRASS FIRE HOSE NOZZLE**

1-1/2" Brass Fire Hose Nozzle is approved for Class A fires by Factory Mutual Laboratories. Hydrostatic tested to 1,000 PSI. Recessed washer will not fall out. NPT thread.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 1-1/2"      | 8511007     | 1         | \$55.56           |

**RED LEXAN FIRE HOSE NOZZLE**

1-1/2" Red Lexan Fire Hose Nozzle is a combination type nozzle approved for Class A fires by Factory Mutual Laboratories. Hydrostatic tested to 1,000 PSI. Recessed washer will not fall out. NPT thread.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 1-1/2"      | 8511008     | 1         | \$17.65           |

**BRASS FIRE HYDRANT GATE VALVE**

2-1/2" Brass Fire Hydrant Gate Valve with speed handle. 2-1/2" NST swivel inlet x 2-1/2" NST male outlet.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 2-1/2"      | 8521032     | 1         | \$188.88          |

**WAFER CHECK VALVE - UL/FM**

UL Listed and FM Approved anti-water hammer check valve for fire pump service. 100% pressure tested. 250 WOG @ 180° Max. Ductile iron body, bronze seat ring assembly, stainless steel screw, Buna-N seat and face o-rings, steel pipe plug. 4" size is provided with 1/2" pipe plug in drain port as standard configuration.



| Description | Part Number | Weight (lbs.) | Case Qty. | List Price (Each) |
|-------------|-------------|---------------|-----------|-------------------|
| 4"          | 4WC         | 15            | 1         | \$250.59          |
| 6"          | 6WC         | 19            | 1         | \$394.69          |
| 8"          | 8WC         | 29            | 1         | \$626.38          |

**BRASS CAP AND CHAIN**

| Description | Part Number | List Price (Each) |
|-------------|-------------|-------------------|
| 1-1/2"      | 5709        | \$22.00           |
| 2-1/2"      | 5713-B      | \$23.00           |
| 4-1/2"      | 4645        | \$206.66          |

**THREADED FDC BRASS PLUG**

| Description                | Part Number | List Price (Each) |
|----------------------------|-------------|-------------------|
| 1-1/2" With Attached Chain | 5940        | \$25.64           |
| 2-1/2" With Attached Chain | 6747-NST    | \$39.32           |

**FIRE VALVES & ACCESSORIES**7245 - Female  
x male pin lug.7201 - Double  
male hex  
adapter.7215 - Double  
female hex  
adapter.7220 - Female  
x male hex  
adapter.**PIN LUG OR ROCKER LUG ADAPTERS****FEMALE x MALE PIN LUG BRASS ADAPTER**  
(NST x Male Garden Hose Thread)**POPULAR**

| Description                   | Part Number | List Price (Each) |
|-------------------------------|-------------|-------------------|
| Female x Male - 2-1/2" x 3/4" | 7245-1      | \$31.11           |

**FEMALE x MALE PIN LUG BRASS ADAPTERS (NST x NPT)**

| Description                     | Part Number | List Price (Each) |
|---------------------------------|-------------|-------------------|
| Female x Male - 2-1/2" x 3/4"   | 7245-75NST  | \$33.33           |
| Female x Male - 2-1/2" x 1"     | 7245-2      | \$31.11           |
| Female x Male - 2-1/2" x 1-1/2" | 7245-3      | \$31.11           |
| Female x Male - 2-1/2" x 2"     | 7245-4      | \$31.11           |

**HEX ADAPTERS****DOUBLE MALE BRASS HEX ADAPTERS (NST x NPT)**

| Description                         | Part Number | List Price (Each) |
|-------------------------------------|-------------|-------------------|
| Double Male Brass - 1-1/2" x 1-1/2" | 7201-1      | \$22.78           |
| Double Male Brass - 2-1/2" x 2-1/2" | 7201-4      | \$38.60           |
| Double Male Brass - 4-1/2" x 4"     | 7201-7      | \$320.00          |

**DOUBLE FEMALE BRASS HEX ADAPTERS (NST x NPT)**

| Description                           | Part Number | List Price (Each) |
|---------------------------------------|-------------|-------------------|
| Double Female Brass - 1-1/2" x 1-1/2" | 7215-1      | \$27.87           |
| Double Female Brass - 2-1/2" x 2-1/2" | 7215-2      | \$40.56           |

**FEMALE x MALE BRASS HEX ADAPTERS (NST x NPT)**

| Description                           | Part Number | List Price (Each) |
|---------------------------------------|-------------|-------------------|
| Female x Male Brass - 1-1/2" x 1-1/2" | 7220-1      | \$20.56           |
| Female x Male Brass - 2-1/2" x 2-1/2" | 7220-4      | \$41.49           |

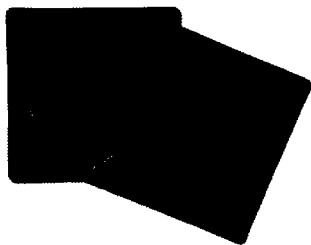
**MARKING PRODUCTS****CURB MARKER**

This high strength, surface mounted marker is made from Lexan® and is an easy and inexpensive way to mark all buried cable and pipelines. Available in six colors they can include your custom message and logo.

The Curb Marker is flush mounted onto a curb, sidewalk or manhole using a tube adhesive. Durable, they stand up to freezing temperatures. The Epoxy Installation Kit will set approximately 75 markers.

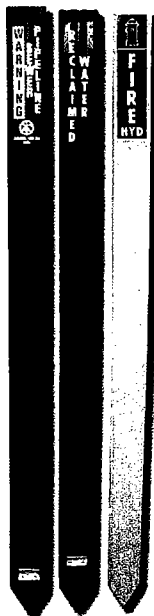
**50 piece minimum order.**

| Description                   | Part Number | Case Qty. | List Price (Each) |
|-------------------------------|-------------|-----------|-------------------|
| Red Electric                  | 4CMRE       | 50        | \$12.32           |
| Yellow Gas                    | 4CMYG       | 50        | \$12.32           |
| Orange Fiber Optic            | 4CMFO       | 50        | \$12.32           |
| Blue Waterline                | 4CMBW       | 50        | \$12.32           |
| Blue Potable Waterline        | 4CMBPW      | 50        | \$12.32           |
| Reclaimed/Recycled Waterline  | 4CMRRW      | 50        | \$12.32           |
| Green Sewer Line              | 4CMGS       | 50        | \$12.32           |
| No Dumping - Drains To Ocean  | 4CMDTO      | 50        | \$12.32           |
| No Dumping - Drains To Lake   | 4CMDTL      | 50        | \$12.32           |
| No Dumping - Drains To Creek  | 4CMDTC      | 50        | \$12.32           |
| No Dumping - Drains To River  | 4CMDTR      | 50        | \$12.32           |
| Epoxy Installation kit 1-part | CME1        | 1         | \$20.20           |

**MARKING PRODUCTS****GROUND HYDRANT/PAVEMENT REFLECTORS - 4" x 4"**

Pavement reflectors to mark hydrant locations are manufactured with an optic grade acrylic. *Don't forget a taping kit or rapid set epoxy.*

| Description  | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| Blue   | PRB44       | 50        | \$4.29            |
| Green  | PRG44       | 50        | \$4.29            |
| Amber  | PRA44       | 50        | \$4.29            |
| White  | PRW44       | 50        | \$4.29            |
| Red  | PRR44       | 50        | \$4.29            |
| Hydrant 2-sided Taping Kit - <i>Good for use on one reflector only</i> | HTK2        | 250       | \$1.56            |
| Rapid Set Epoxy Parts A & B - <i>Good for 15-18 placements</i>         | RSE10       | 1         | \$87.72           |

**SUPERFLEX™ FIBERGLASS PIPELINE & CABLE MARKING POSTS**

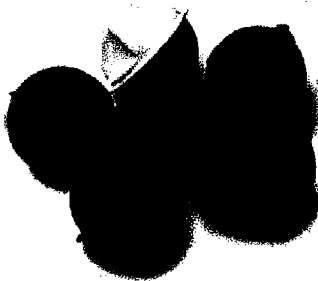
Christy's™ offers Superflex™ Fiberglass Pipeline & Cable Marking Posts that reduce service interruptions by visibly indicating where a buried pipeline, cable, valve or other underground utility is located. Anchor kits and decals are pre-installed. UV protected and non-burning (ASTM D-635).

| Description                                 | Part Number | Case Qty. | List Price (Each) |
|---|-------------|-----------|-------------------|
| 66" - Blue, Water                           | ID-SF66-BW  | 1         | \$35.74           |
| 66" - Green, Sewer                          | ID-SF66-GS  | 1         | \$35.74           |
| 66" - Orange, Fiber-optic                   | ID-SF66-OF  | 1         | \$35.74           |
| 66" - Orange, Telephone                     | ID-SF66-OT  | 1         | \$35.74           |
| 66" - Purple, Reclaimed Water               | ID-SF66-PRW | 1         | \$35.74           |
| 66" - Yellow, Gas Line                      | ID-SF66-YG  | 1         | \$35.74           |
| 66" - Red, Electric                         | ID-SF66-RE  | 1         | \$35.74           |
| Misc. Decal for ID-SF66 Marker              | ID-SF-DECAL | 1         | \$5.56            |
| Post Driver for Fiberglass Pipeline Markers | JMI-D-375   | 1         | \$351.85          |



Post Driver

**CALL FOR A COMPLETE MARKING PRODUCTS CATALOG**

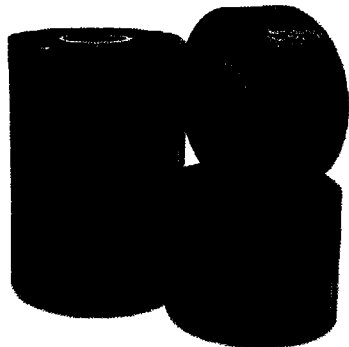
**ELECTRONIC MARKERS**

Omni Electronic Markers can be used to mark or locate buried splices and load coils, buried service drops, pipe ends/ stub-outs, conduit stubs, road crossings, cable paths, fiber optic facilities, manholes under pavement or grade changes, snow-covered facilities, survey points, sewer points, sewer taps, repair points, and non-metallic lines. **Case quantities only.**

**Quantity Discounts Available**

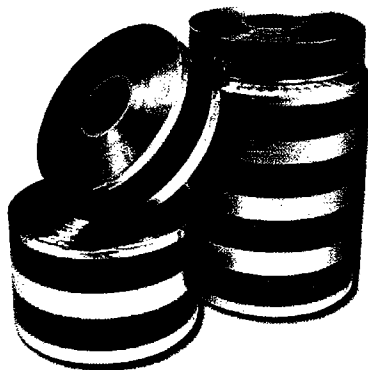
| Description         | Part Number | Case Qty. | List Price (Case) |
|---------------------|-------------|-----------|-------------------|
| Yellow              | 1500147     | 24        | \$766.42          |
| Blue                | 1500144     | 24        | \$766.42          |
| Green               | 1500145     | 24        | \$766.42          |
| Red                 | 1500143     | 24        | \$766.42          |
| Omni Marker Locator | 1500592     | 1         | \$3,517.37        |



**MARKING PRODUCTS****CHRISTY'S™ UNDERGROUND NON-DETECTABLE TAPE**

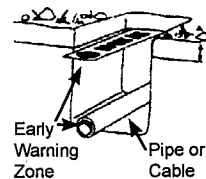
Christy's™ Underground Non-Detectable Tape uses lead-free black ink that will not fade or contaminate the ground. Elongation is >400 percent at break point. 4 mil. Virgin LLDPE/LDPE.

| Description  | Part Number  | Case Qty. | List Price (Each) |
|--------------|--------------|-----------|-------------------|
| 3" x 1,000'  | TA-ND-3-XXX  | 8         | \$25.70           |
| 6" x 1,000'  | TA-ND-6-XXX  | 4         | \$44.32           |
| 12" x 1,000' | TA-ND-12-XXX | 2         | \$88.65           |

**CHRISTY'S™ UNDERGROUND DETECTABLE TAPE**

Christy's™ Underground Detectable Tape has a 2.0 mil (0.0020") solid aluminum foil core, encapsulated within 2.55 mil (0.00255") polyethylene backing (5 mil total thickness). See below for Standard Color/ Legend Combinations. All color and legend combinations are not available in all widths. Call Christy's™ with your specific requirements, to receive Christy's™ Marking Products Catalog, or for pallet quantity discounts.

| Description  | Part Number  | Case Qty. | List Price (Each) |
|--------------|--------------|-----------|-------------------|
| 2" x 1,000'  | TA-DT-2-XXX  | 12        | \$35.10*          |
| 3" x 1,000'  | TA-DT-3-XXX  | 8         | \$52.33*          |
| 6" x 1,000'  | TA-DT-6-XXX  | 4         | \$105.27*         |
| 12" x 1,000' | TA-DT-12-XXX | 2         | \$209.31*         |



Pallet  
Quantity Discounts Available.  
Call for Details.

**HOW TO ORDER UNDERGROUND MARKING TAPES****TA-XX-XX-XXX**

**TYPE OF TAPE**  
DT - Detectable  
ND - Non-Detectable

**WIDTH OF TAPE**  
2 - 2"  
3 - 3"  
6 - 6"  
12 - 12"

**COLORS**  
B - Blue  
P - Purple  
Y - Yellow  
G - Green  
R - Red  
W - White  
O - Orange  
BR - Brown

**LEGENDS**

CP - Cathodic Protection  
CTN - Caution  
DNG - Danger  
E - Electric  
F - Fire  
FM - Force Main  
FO - Fiber Optic  
G - Gas  
I - Irrigation  
NPW - Non-Potable Water  
PW - Potable Water  
RAW - Raw Water  
RW - Reclaimed Water  
S - Sewer  
STDR - Storm Drain  
T - Telephone  
W - Water

**STANDARD COLOR/ LEGEND COMBINATIONS**

|        |       |   |
|--------|-------|---|
| Blue   | BI    | "Caution Irrigation Line Buried Below"                |
| Blue   | BNPW  | "Caution Non-Potable Water Line Buried Below"         |
| Blue   | BPW   | "Caution Potable Water Line Buried Below"             |
| Blue   | BW    | "Caution Water Line Buried Below"                     |
| Brown  | BFM   | "Caution Force Main Buried Below"                     |
| Green  | GFM   | "Caution Force Main Buried Below"                     |
| Green  | GI    | "Caution Irrigation Line Buried Below"                |
| Green  | GNPW  | "Caution Non-Potable Line Buried Below"               |
| Green  | GPW   | "Caution Potable Line Buried Below"                   |
| Green  | GRAW  | "Caution Raw Water Line Buried Below"                 |
| Green  | GS    | "Caution Sewer Line Buried Below"                     |
| Green  | GSTDR | "Caution Storm Drain Buried Below"                    |
| Orange | OFO   | "Caution Fiber Optic Line Buried Below"               |
| Orange | OT    | "Caution Telephone Line Buried Below"                 |
| Orange | OCP   | "Caution Cathodic Protection Cable Buried Below"      |
| Purple | PRW   | "Caution Recycled/ Reclaimed Water Line Buried Below" |
| Red    | RE    | "Caution Electric Line Buried Below"                  |
| Red    | RF    | "Caution Fire Line Buried Below"                      |
| Red    | RDNG  | "Danger Do Not Enter" (Above or below ground)         |
| Yellow | YCTN  | "Caution Caution Caution" (Above or below ground)     |
| Yellow | YG    | "Caution Gas Line Buried Below"                       |

**Example:**

**TA-DT-2-PRW**

2" Detectable Purple Reclaimed Water

**NOTE:** Not all widths are available as standard for the stock color/legend combinations shown. Contact Christy's™ for stock availability of specific products. Non-stock combinations are subject to minimum requirements.

**MARKING PRODUCTS****CONSTRUCTION/TURF MARKING PAINT**

Designed for inverted spraying. Quik-Mark™ marking paint is an economical, water-based formula designed to adhere to most surfaces. The mark is visible for 14 days depending on traffic and exposure. 17 oz. net weight.

| Description        | Part Number | Case Qty. | List Price (Each) |
|--------------------|-------------|-----------|-------------------|
| Fluorescent Pink   | S03612      | 12        | \$6.53*           |
| Fluorescent Red    | S03610      | 12        | \$6.53*           |
| Fluorescent Orange | S03700      | 12        | \$6.53*           |
| APWA Red           | S03911      | 12        | \$6.53*           |
| APWA White         | S03901      | 12        | \$6.53*           |
| APWA Green         | S03904      | 12        | \$6.53*           |
| APWA Blue          | S03903      | 12        | \$6.53*           |
| APWA Yellow        | S03801      | 12        | \$6.53*           |

**SURVEY MARKING PAINT**

Designed for inverted spraying. High paint solids mean a more durable mark and more lineal feet per can. All colors are lead-free for safe use in all locations. Complies with California VOC standards for reduced emission spray paints. 17 oz. net weight.

**Sold in case quantities only.**

| Description             | Part Number | Case Qty. | List Price (Each) |
|-------------------------|-------------|-----------|-------------------|
| Clear                   | S03600      | 12        | \$6.98*           |
| Black                   | S03550      | 12        | \$6.98*           |
| Safety White            | S03900      | 12        | \$6.98*           |
| Fluorescent Purple      | S03615      | 12        | \$6.98*           |
| Fluorescent Red         | S03613      | 12        | \$6.98*           |
| Fluorescent Orange      | S03702      | 12        | \$6.98*           |
| Fluorescent Green       | S03614      | 12        | \$6.98*           |
| Fluorescent Yellow      | S03821      | 12        | \$6.98*           |
| Fluorescent Blue        | S03722      | 12        | \$6.98*           |
| Fluorescent Pink        | S03622      | 12        | \$6.98*           |
| Fluorescent Red/ Orange | S03701      | 12        | \$6.98*           |

**KRYLON ALL-PURPOSE MARKING PAINT**

A cost effective, water based all-purpose spray on paint for interior or exterior use. It is formulated for one-coat coverage & designed for inverted spraying. This all purpose paint is VOC compliant and free of lead hazards.

**Sold in case quantities only.**

| Description        | Part Number | Case Qty. | List Price (Each) |
|--------------------|-------------|-----------|-------------------|
| Yellow             | WDMP03801   | 12        | \$6.28*           |
| Red                | WDMP03911   | 12        | \$6.28*           |
| Blue               | WDMP03903   | 12        | \$6.28*           |
| Green              | WDMP03904   | 12        | \$6.28*           |
| White              | WDMP03901   | 12        | \$6.28*           |
| Fluorescent Red    | WDMP03610   | 12        | \$6.28*           |
| Fluorescent Orange | WDMP03700   | 12        | \$6.28*           |
| Fluorescent pink   | WDMP03612   | 12        | \$6.28*           |

**MARKING PAINT HOLDERS**

| Description       | Part Number | List Price (Each) |
|-------------------|-------------|-------------------|
| Spot Marker - 12" | K07095      | \$36.26*          |
| 34" Marking Stick | K07096      | \$44.22*          |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**CHRISTY'S™ POLYETHYLENE ENCASEMENT - 20' PERFORATIONS****CONFORMS TO ANSI/AWWA C105/A21.5-99 - PRINTED**

**Product Type:** Polyethylene encasement for gray, ductile and cast iron piping for water and other liquids.

**Description:** Polyethylene in tube or sheet form for the encasement of piping. Perforated every 20' or 22' as specified.

**Specifications:** Polyethylene film is manufactured of virgin polyethylene material conforming to the material requirements of ANSI/ AWWA C105/A21.5-99 and the following requirements of the latest revision of ASTM standard specification D-4979, polyethylene plastics, molding and extrusion materials.

**Material:** Group - 2 (linear). Density - 0.910 to 0.935 g/cm<sup>3</sup>. Dielectric strength - Volume resistivity 10<sup>15</sup> ohm-cm., min. Class - A (natural/ clear color), B (colors)(I), C (black).

**Physical Properties:** Minimum tensile strength - 3600 PSI (24.8 MPa). Minimum elongation - 800% (ASTM 882). Minimum dielectric strength - 800 V/mil (ASTM D149). Minimum impact resistance - 600 g (ASTM D1709 Method B). Minimum propagation tear resistance - 2550 gf (ASTM D1922).

TCE, INC. 2002  
ANSI/AWWA C105/A21.5-99

8MIL - LLDPE

THROUGH 8" PIPE O.D. (21" E)

**WARNING-CORROSION PROTECTION**  
**REPAIR ANY DAMAGE**

**Thickness:** Linear low-density polyethylene film has a minimum thickness of 0.008" (8 mils).

**Color:** Polyethylene film is supplied with its natural color, colors including white and black, or black (weather-resistant) containing not less than 2 percent carbon black with an average particle diameter of 50 mm or less. A minimum of 2 percent of a hindered-amine ultraviolet inhibitor in any natural or colored film except black film containing 2 percent or more carbon black. Black Polyethylene film is naturally U.V protected.

**BLACK POLYETHYLENE ENCASEMENT – 400', 200', 340' ROLLS – CURRENT SPECIFICATION - 20' PERFORATIONS**  
**8 mil minimum. Black Polyethylene Encasement AWWA C105/A21.5-99 - Printed**

| Description | Part Number     | Color | Nominal Pipe O.D. | Feet per Roll | Feet per Perf | Rolls per Pallet | List Price |
|-------------|-----------------|-------|-------------------|---------------|---------------|------------------|------------|
| 16" x 400'  | WRP-16400B-AWWA | Black | 4" - 6"           | 400           | 20            | 20               | Call       |
| 20" x 400'  | WRP-20400B-AWWA | Black | 8"                | 400           | 20            | 20               | Call       |
| 24" x 400'  | WRP-24400B-AWWA | Black | 10"               | 400           | 20            | 16               | Call       |
| 27" x 400'  | WRP-27400B-AWWA | Black | 12"               | 400           | 20            | 16               | Call       |
| 30" x 400'  | WRP-30400B-AWWA | Black | 14"               | 400           | 20            | 16               | Call       |
| 30" x 200'  | WRP-30200B-AWWA | Black | 14"               | 200           | 20            | 25               | Call       |
| 34" x 200'  | WRP-34200B-AWWA | Black | 16"               | 200           | 20            | 25               | Call       |
| 37" x 200'  | WRP-37200B-AWWA | Black | 18"               | 200           | 20            | 25               | Call       |
| 54" x 200'  | WRP-54200B-AWWA | Black | 24"               | 200           | 20            | 16               | Call       |
| 67" x 200'  | WRP-67200B-AWWA | Black | 30"               | 200           | 20            | 12               | Call       |
| 84" x 200'  | WRP-84200B-AWWA | Black | 36" - 42"         | 200           | 20            | 10               | Call       |
| 21" x 340'  | WRP-21340B-AWWA | Black | 8"                | 340           | 20            | 20               | Call       |
| 24" x 340'  | WRP-24340B-AWWA | Black | 10"               | 340           | 20            | 16               | Call       |
| 29" x 340'  | WRP-29340B-AWWA | Black | 12"               | 340           | 20            | 16               | Call       |
| 37" x 340'  | WRP-37340B-AWWA | Black | 18"               | 340           | 20            | 16               | Call       |
| 54" x 340'  | WRP-54340B-AWWA | Black | 24"               | 340           | 20            | 12               | Call       |

**CHRISTY'S™ POLYETHYLENE ENCASEMENT - 20' PERFORATIONS****CLEAR POLYETHYLENE ENCASEMENT – 400', 200', 340' ROLLS – CURRENT SPECIFICATION**

8 mil minimum. Clear Polyethylene Encasement AWWA C105/A21.5-99 - Printed

| Description | Part Number     | Color | Nominal Pipe O.D. | Feet per Roll | Feet per Perf | Rolls per Pallet | List Price |
|-------------|-----------------|-------|-------------------|---------------|---------------|------------------|------------|
| 20" x 400'  | WRP-20400C-AWWA | Clear | 8"                | 400           | 20            | 20               | Call       |
| 30" x 400'  | WRP-30400C-AWWA | Clear | 14"               | 400           | 20            | 16               | Call       |
| 37" x 200'  | WRP-37200C-AWWA | Clear | 18"               | 200           | 20            | 25               | Call       |
| 54" x 200'  | WRP-54200C-AWWA | Clear | 24"               | 200           | 20            | 16               | Call       |
| 21" x 340'  | WRP-21340C-AWWA | Clear | 8"                | 340           | 20            | 20               | Call       |
| 29" x 340'  | WRP-29340C-AWWA | Clear | 12"               | 340           | 20            | 16               | Call       |
| 37" x 340'  | WRP-37340C-AWWA | Clear | 18"               | 340           | 20            | 16               | Call       |
| 54" x 340'  | WRP-54340C-AWWA | Clear | 24"               | 340           | 20            | 12               | Call       |

**GREEN POLYETHYLENE ENCASEMENT – 340' ROLLS – CURRENT SPECIFICATION**

8 mil minimum. Green Polyethylene Encasement AWWA C105/A21.5-99 - Printed

| Description | Part Number     | Color | Nominal Pipe O.D. | Feet per Roll | Feet per Perf | Rolls per Pallet | List Price |
|-------------|-----------------|-------|-------------------|---------------|---------------|------------------|------------|
| 21" x 340'  | WRP-21340G-AWWA | Green | 8"                | 340           | 20            | 20               | Call       |
| 29" x 340'  | WRP-29340G-AWWA | Green | 12"               | 340           | 20            | 16               | Call       |
| 37" x 340'  | WRP-37340G-AWWA | Green | 18"               | 340           | 20            | 16               | Call       |

**PURPLE POLYETHYLENE ENCASEMENT – 340' ROLLS – CURRENT SPECIFICATION**

8 mil minimum. Purple Polyethylene Encasement AWWA C105/A21.5-99 - Printed - Recycled/Reclaimed Water

| Description | Part Number     | Color  | Nominal Pipe O.D. | Feet per Roll | Feet per Perf | Rolls per Pallet | List Price |
|-------------|-----------------|--------|-------------------|---------------|---------------|------------------|------------|
| 21" x 340'  | WRP-21340P-AWWA | Purple | 8"                | 340           | 20            | 20               | Call       |
| 29" x 340'  | WRP-29340P-AWWA | Purple | 12"               | 340           | 20            | 16               | Call       |
| 37" x 340'  | WRP-37340P-AWWA | Purple | 18"               | 340           | 20            | 16               | Call       |
| 54" x 340'  | WRP-54340P-AWWA | Purple | 24"               | 340           | 20            | 12               | Call       |

**POLYWRAP SIZING**

| Pipe Size   | Polywrap Size | Pipe Size   | Polywrap Size |
|-------------|---------------|-------------|---------------|
| Through 6"  | 16"           | Through 18" | 37"           |
| Through 8"  | 20"/21"       | Through 24" | 54"           |
| Through 10" | 24"           | Through 30" | 67"           |
| Through 12" | 27"/29"       | Through 36" | 84"           |
| Through 14" | 30"           | Through 42" | 84"           |
| Through 16" | 34"           |             |               |

Custom Sizes &  
Print Available - Subject to minimum quantity  
extrusion runs of 5,000 lbs.

Sizing shown conforms to ANSI/AWWA C105/A21.5-99.

**CHRISTY'S™ POLYETHYLENE ENCASEMENT - 22' PERFORATIONS****BLACK POLYETHYLENE ENCASEMENT – 440' & 220' ROLLS – CURRENT SPECIFICATION**

8 mil minimum. Black Polyethylene Encasement AWWA C105/A21.5-99 - Printed

| Description | Part Number     | Color | Nominal Pipe O.D. | Feet per Roll | Feet per Perf | Rolls per Pallet | List Price |
|-------------|-----------------|-------|-------------------|---------------|---------------|------------------|------------|
| 20" x 440'  | WRP-20440B-22AW | Black | 8"                | 440           | 22            | 20               | Call       |
| 24" x 440'  | WRP-24440B-22AW | Black | 10"               | 440           | 22            | 16               | Call       |
| 27" x 440'  | WRP-27440B-22AW | Black | 12"               | 440           | 22            | 16               | Call       |
| 30" x 220'  | WRP-30220B-22AW | Black | 14"               | 220           | 22            | 25               | Call       |
| 30" x 440'  | WRP-30440B-22AW | Black | 14"               | 440           | 22            | 16               | Call       |
| 34" x 220'  | WRP-34220B-22AW | Black | 16"               | 220           | 22            | 25               | Call       |
| 37" x 220'  | WRP-37220B-22AW | Black | 18"               | 220           | 22            | 25               | Call       |
| 54" x 220'  | WRP-54220B-22AW | Black | 24"               | 220           | 22            | 16               | Call       |
| 67" x 220'  | WRP-67220B-22AW | Black | 30"               | 220           | 22            | 12               | Call       |

**CLEAR POLYETHYLENE ENCASEMENT – 440' & 220' ROLLS – CURRENT SPECIFICATION**

8 mil minimum. Clear Polyethylene Encasement AWWA C105/A21.5-99 - Printed

| Description | Part Number     | Color | Nominal Pipe O.D. | Feet per Roll | Feet per Perf | Rolls per Pallet | List Price |
|-------------|-----------------|-------|-------------------|---------------|---------------|------------------|------------|
| 20" x 440'  | WRP-20440C-22AW | Clear | 8"                | 440           | 22            | 20               | Call       |
| 27" x 440'  | WRP-27440C-22AW | Clear | 12"               | 440           | 22            | 16               | Call       |
| 37" x 220'  | WRP-37220C-22AW | Clear | 18"               | 220           | 22            | 25               | Call       |
| 54" x 220'  | WRP-54220C-22AW | Clear | 24"               | 220           | 22            | 16               | Call       |

**CHRISTY'S™ POLYETHYLENE COPPER TUBE SLEEVING**

For use in protecting copper service runs.

**BLUE POLYETHYLENE ENCASEMENT**

6 mil average. Blue Polyethylene Encasement - Not Printed

| Description | Part Number   | Color | Nominal Pipe O.D. | Feet per Roll | Feet per Perf | Rolls per Pallet | List Price |
|-------------|---------------|-------|-------------------|---------------|---------------|------------------|------------|
| 3" x 200'   | WRP-03200BLUE | Blue  | 1"                | 200           | n/a           | —                | Call       |
| 4" x 200'   | WRP-04200BLUE | Blue  | 2"                | 200           | n/a           | —                | Call       |

**CLEAR POLYETHYLENE ENCASEMENT**

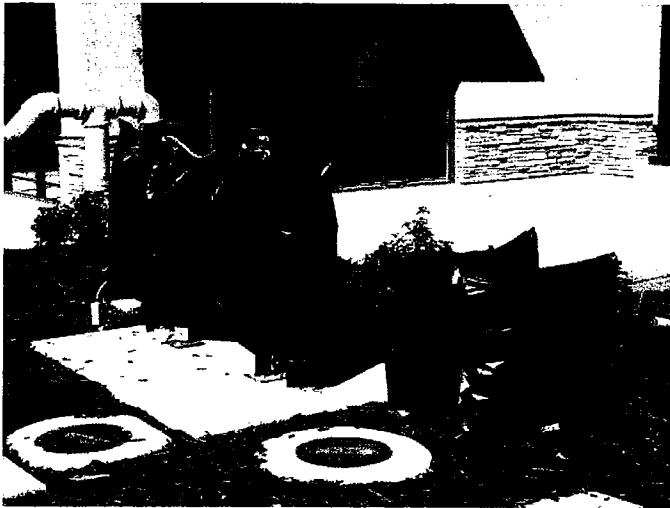
6 mil average. Clear Polyethylene Encasement. Not printed.

| Description | Part Number   | Color | Nominal Pipe O.D. | Feet per Roll | Feet per Perf | Rolls per Pallet | List Price |
|-------------|---------------|-------|-------------------|---------------|---------------|------------------|------------|
| 3" x 720'   | WRP-03720C-06 | Clear | 1"                | 720           | n/a           | —                | Call       |
| 4" x 720'   | WRP-04720C-06 | Clear | 1-1/2"            | 720           | n/a           | —                | Call       |
| 5" x 720'   | WRP-05720C    | Clear | 2"                | 720           | n/a           | 48               | Call       |

**CHRISTY'S™ POLYETHYLENE VISQUEEN FITTING WRAP****CLEAR POLYETHYLENE SHEETING– CURRENT SPECIFICATION**

8 mil minimum. Clear Polyethylene Sheeting AWWA C105/A21.5-99 - Printed

| Description | Part Number     | Color | Nominal Pipe O.D. | Feet per Roll | Feet per Perf | Rolls per Pallet | List Price |
|-------------|-----------------|-------|-------------------|---------------|---------------|------------------|------------|
| 36" x 100'  | WRP-36100C-AWWA | Clear | n/a               | 100           | n/a           | 42               | Call       |

**BACKFLOW SECURITY/ FREEZE BLANKETS**

| Description/<br>Size | Sizing<br>Guidelines | Part<br>Number | List Price<br>(Each) |
|----------------------|----------------------|----------------|----------------------|
| 20" x 18"            | 3/4"                 | BFSC2018       | \$123.46             |
| 24" x 20"            | 3/4" through 1"      | BFSC2420       | \$180.25             |
| 24" x 24"            | 3/4" through 1-1/4"  | BFSC2424       | \$141.98             |
| 36" x 24"            | 1-1/2" through 2"    | BFSC3624       | \$251.85             |
| 36" x 36"            | 2"                   | BFSC3636       | \$424.69             |
| 48" x 30"            | 2" through 2-1/2"    | BFSC4830       | \$461.73             |
| 48" x 42"            | 2-1/2"               | BFSC4842       | \$461.73             |
| 60" x 38"            | 2-1/2" through 3"    | BFSC6038       | \$777.78             |
| 72" x 38"            | 4"                   | BFSC7238       | \$1000.00            |
| 93" x 48"            | 6"                   | BFSC9348       | \$1222.22            |
| 102" x 48"           | 8"                   | BFSC10248      | \$1,456.79           |

**BFSC6038 through BFSC10248 require the manufacturer and model number before placing an order.**

**PRODUCT SPECIFICATIONS**

Christy's™ Backflow Security/Freeze Blankets help to protect your investment. Manufactured of Herculite 10W laminated fabric, these security/ freeze blankets are capable of withstanding 2000 hours of weatherometer exposure in it's pre-laminated state. The base fastening is made of Velcro® Texacro® with a #70 hook and #71 loop.

The blanket carries an R19 insulation rating and uses a non-biodegradable insulating material.

You may specify width and height of a customized backflow security/freeze blanket or choose from Christy's™ standard configurations below. For special blankets, please provide the following information: 1) Backflow size, 2) Model number, and 3) OS&Y's.

**Break Strength:** Method: 191-5100. Values: W 125 100°F.

**Tear Strength:** Method: 191-5134. Values: W 34 35°F.

**Insulation:** R19 Faced.

**Grommet:** #3 Spurred rolled.

Custom Fitted  
Bags Also Available for Water Storage  
Tanks and Pressure Reducing Valves in Water Treat-  
ment Plants. Call for Details.



**WATER SPECIALTY PRODUCTS****PERMATEX® #1C FORM-A-GASKET SEALANT**

Reliable paste-like gasket sealant/ dressing/ coating. It sets quickly to a hard set and is recommended for rigid, permanent assemblies. Permatex® is most commonly used to coat cut gaskets to improve sealing and hold the gasket in place. RH-1C has a temperature rating of up to 400°F (204°C) and is resistant to gasoline and other solvents. Conforms to MIL-S45180 D.

| Description     | Part Number | Case Qty. | List Price (Each) |
|-----------------|-------------|-----------|-------------------|
| #1C 11 oz. Tube | RH-1C       | 12        | See Solvents*     |

**PERMATEX® #2C FORM-A-GASKET SEALANT**

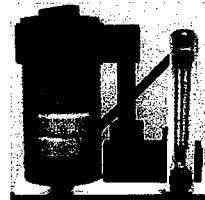
Reliable paste-like gasket sealant/ dressing/ coating. It is a slow drying, non-hardening sealant best suited for non-rigid, vibrating assemblies. Permatex® is most commonly used to coat cut gaskets to improve sealing and hold the gasket in place. However, RH-2C is also used in attaching chlorine tablets to the inner wall of a pipe system. RH-2C has a temperature rating of up to 400°F (204°C) and is resistant to gasoline and other solvents. Conforms to MIL-S45180 D.

| Description     | Part Number | Case Qty. | List Price (Each) |
|-----------------|-------------|-----------|-------------------|
| #2C 11 oz. Tube | RH-2C       | 12        | See Solvents*     |

**CHLORINATING**

CCH® Chlorine contains 68 percent available chlorine and is available in either granular or tablet form. Convenient, easy to use and handle. Expensive, complex metering equipment is not required. CCH® is the #1 choice of Waterworks Professionals.

| Description                     | Part Number | Case Qty. | List Price (Each) |
|---------------------------------|-------------|-----------|-------------------|
| Granular Chlorine - 5 Lb. Jug   | 30929       | 6         | \$31.31           |
| Granular Chlorine - 25 Lb. Jug  | 22206       | 1         | \$156.50          |
| Granular Chlorine - 100 Lb. Jug | 22209       | 1         | \$374.35          |
| 1" Chlorine Tablets - 5 Lb. Jug | 30932       | 6         | \$38.31           |

**MANIFOLDS FOR TABLETS OR LIQUID**

Tablet Manifold.

Tablet manifold is capable of modification to liquid manifold.

**Special Order Only.**

| Description  | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| Liquid Manifold for Chlorination or Dechlorination | LM-2000     | 1         | \$1,428.57        |
| Tablet Manifold for Dechlorination                 | TMD-2000    | 1         | \$1,428.57        |

\* Solvents pricing is available from Christy's™ Solvents & Sealants Catalog and is subject to change. Please call to confirm pricing.

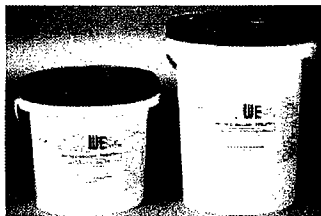
**WATER SPECIALTY PRODUCTS****LIQUID BAZOOKA DECHLORINATING UNITS**

The Dechlorination "Bazooka" attaches directly on a 2-1/2", 4" or 4-1/2" fire hydrant fitting, or a 2" or 3" riser from a water main. By opening the hydrant valve or riser valve, water passes through the unit creating a vacuum which pulls the dechlorination chemical from its supply container into the chlorinated water, neutralizing it to EPA standards.

Special Order Only

FHF = Fire Hydrant Fitting  
THD = Female Pipe Threads  
FLG = Flange Fittings.

| Description                        | Part Number      | Case Qty. | List Price (Each) |
|------------------------------------|------------------|-----------|-------------------|
| 2.5" x 2.5" Dechlorinator          | DBL-2000-2.5-THD | 1         | \$3,539.68        |
| 4.5" x 4.5" Dechlorinator          | DBL-2000-4.5-FHF | 1         | \$7,174.60        |
| 2.5" x 2.5" Dechlorinator - Tablet | DBT-2000-2.5-FHF | 1         | \$7,174.60        |
| 4.5" x 4.5" Dechlorinator - Tablet | DBT-2000-4.5-FHF | 1         | \$7,174.60        |

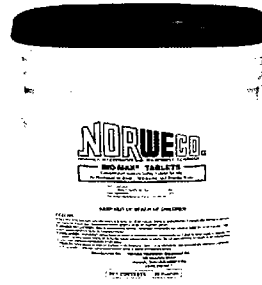
**DECHLORINATION - NORWECO® BIO NEUTRALIZER TABLETS**

Bio-Neutralizer Tablets have a controlled chemical dissolve rate. This controlled dose means less product usage and saves on your costs. Also, more control over the amount of chemical being dosed means less chemical

added to the receiving stream.

In applications treating high velocity rates and pressure, such as when using a bazooka to dechlorinate, it is beneficial to use a tablet with integrity.

| Description  | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| Sodium Sulfite Dechlorinating Tablets 2-5/8" Dia. 5 oz. - 25 Lb. Jug | DC25        | 1         | \$192.59          |
| Sodium Sulfite Dechlorinating Tablets 2-5/8" Dia. 5 oz. - 45 Lb. Jug | DC45        | 1         | \$292.59          |

**BIO-MAX® DECHLORINATION TABLETS**

Bio-Max Dechlorination Tablets provide a convenient to use source of concentrated sodium sulfite to instantly remove chlorine from wastewater, potable water and process water. The tablets allow plant operators to meet chlorine discharge limitations in a low cost, low maintenance, environmentally safe manner.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 48 Lb. Jug  | BM48        | 1         | \$340.73          |

**VITA-D-CHLOR DECHLORINATING GRANULES**

Vita-D-Chlor is a specially formulated product for safe, rapid and complete dechlorination of water. Vita-D-Chlor utilizes ascorbic acid chemistry for dechlorination. Vita-D-Chlor is 100 percent organic and is completely soluble.

**Granular**

| Description | Part Number | List Price (Each) |
|-------------|-------------|-------------------|
| 5.5 Lb. Jug | VDC5.5      | \$134.41          |

**Tablets - 3 oz. 2-5/8"**

|                     |         |            |
|---------------------|---------|------------|
| 6                   | VDT6    | \$107.53   |
| 20                  | VDT20   | \$322.58   |
| 40                  | VDT40   | \$512.00   |
| 140                 | VDT140  | \$1,039.00 |
| 3 Pocket Tablet Mat | 3P-TABY | \$22.40    |

**CAPTOR® DECHLORINATION-LIQUID CALCIUM**

Liquid calcium thiosulfate solution for dechlorination. For highly chlorinated applications of 50 PPM or more.

| Description                         | Part Number | Case Qty. | List Price (Each) |
|-------------------------------------|-------------|-----------|-------------------|
| Liquid Calcium Thiosulfate - 5 Gal. | CAPTOR5     | 1         | \$154.55          |

**WATER SPECIALTY PRODUCTS****WATER TRACING DYE SYSTEMS - NSF**

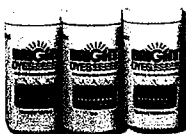
Use our Water Tracing Dyes to detect leaks in sewage systems, trace water and industrial effluents, trace cross connection systems, measure power plant discharge, detect toilet tank leaks, detect illegal sewer connections, monitor flow studies and mapping, and to analyze septic systems.

**WATER TRACING TABLETS - 200 PER BOTTLE - 1 tablet provides strong visual in 60 gals.**

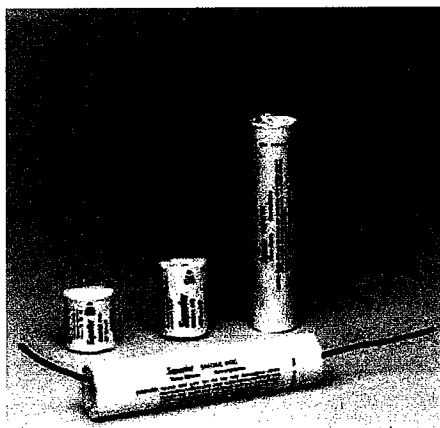
| Description                            | Part Number | Case Qty. | List Price (Ea.) |
|--|-------------|-----------|------------------|
| Fluorescent Yellow-Green (Black Light) | FLT-YG-T    | 1         | \$112.65         |
| Fluorescent Red (Black Light)          | FLT-RED-T   | 1         | \$112.65         |
| Non-fluorescent Blue                   | STD-BLU-T   | 1         | \$112.65         |
| Non-food Grade Blue                    | NFG-BLU-T   | 1         | \$112.65         |

**WATER TRACING LIQUID**

| Description  | Part Number  | Case Qty. | List Price (Ea.) |
|--|--------------|-----------|------------------|
| Fluorescent Yellow-Green (Black Light) - 1 Pint Visual in 12,500 Gals. | FLT-YG-L     | 1         | \$36.24          |
| Non-food Grade Blue - 1 Pint Visual in 12,500 Gals.                    | NFG-BLU-L    | 1         | \$36.24          |
| Non-fluorescent Blue - 1 Pint Visual in 12,500 Gals.                   | STD-BLU-L    | 1         | \$36.24          |
| Fluorescent Orange (Black Light) - 1 Pint Visual in 4,000 Gals.        | FLT-ORG-L    | 1         | \$57.95          |
| Fluorescent Red (Black Light) - 1 Pint Visual in 3,125 Gals.           | FLT-RED-L25  | 1         | \$36.24          |
| Fluorescent Red (Black Light) - 1 Pint Visual in 6,250 Gals.           | FLT-RED-L50  | 1         | \$72.31          |
| Fluorescent Red (Black Light) - 1 Pint Visual in 25,000 Gals.          | FLT-RED-L200 | 1         | \$230.26         |

**WATER TRACING POWDER - 1 pound powder provides strong visual in 120,000 gals.**

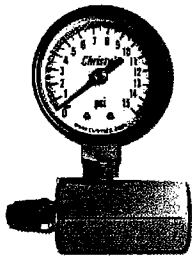
| Description                                    | Part Number | Case Qty. | List Price (Ea.) |
|--|-------------|-----------|------------------|
| Fluorescent Yellow-Green (Black Light) - 1 Lb. | FLT-YG-P    | 1         | \$209.23         |
| Non-food Grade Blue - 1 Lb.                    | NFG-BLU-P   | 1         | \$209.23         |
| Non-fluorescent Blue - 1 Lb.                   | STD-BLU-P   | 1         | \$292.99         |
| Fluorescent Orange (Black Light) - 1 Lb.       | FLT-ORG-P   | 1         | \$292.99         |
| Fluorescent Red (Black Light) - 1 Lb.          | FLT-RED-P   | 1         | \$292.99         |

**SMOKE CANDLES**

Many inspectors and contractors prefer to test with smoke rather than use time-consuming water or air pressure tests. A smoke test can reveal leaks that permit surface water inflow, drains of all types, poorly soldered or fitted joints and leaky seals, and rodent passages into the line.

These smoke candles produce a clean efficient smoke that is a consistent quality from beginning to end, is white or gray in color depending on density and lighting, and contain no explosive materials. Meets recommendations of WEF, EPA and NASSCO. **Case quantities only.**

| Description  | Part Number | Case Qty. | List Price (per Case) |
|--|-------------|-----------|-----------------------|
| 30 Second - 4,000 Cubic Ft.  | 1A          | 12        | \$97.78               |
| 60 Second - 8,000 Cubic Ft.  | 2B          | 12        | \$108.89              |
| 3 Minute - 40,000 Cubic Ft.  | 3C          | 12        | \$199.29              |
| 3 Minute - Double Wicked<br><i>Double wicked, furnished with quick clips for extended smoke generating time.</i> | W3C         | 12        | \$213.33              |

**ACCESSORIES****AIR TEST GAUGE**

- Steel case with 2" dial
- Precision made parts
- Brass 3/4" FPT connection

| Description                  | Part Number | Each | List Price (Each) |
|------------------------------|-------------|------|-------------------|
| 0-15 PSI (1/10th increments) | TG.A.15.20  | 1    | \$12.61           |
| 0-30 PSI                     | TG.A.30.20  | 1    | \$12.61           |
| 0-60 PSI                     | TG.A.60.20  | 1    | \$12.61           |
| 0-100 PSI                    | TG.A.100.20 | 1    | \$12.61           |
| Body ONLY, Steel             | TG.A.BOD    | 1    | \$4.80            |
| Body, Steel, w/ Air Valve    | TG.A.BAV    | 1    | \$6.55            |
| 1/8" Air Valve with Cap      | TG.A.VCAP   | 1    | \$2.71            |

**PRESSURE GAUGE**

- Steel case with 2" dial
- Plastic face
- For testing water or gas pressure
- Precision made parts
- Brass 1/4" MPT connection

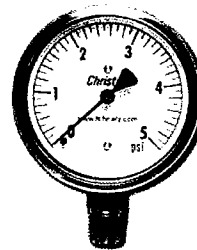
| Description                  | Part Number  | Each | List Price (Each) |
|------------------------------|--------------|------|-------------------|
| 0-15 PSI (1/10th increments) | TG.NB.15.20  | 1    | \$8.23            |
| 0-30 PSI                     | TG.NB.30.20  | 1    | \$8.23            |
| 0-60 PSI                     | TG.NB.60.20  | 1    | \$8.23            |
| 0-100 PSI                    | TG.NB.100.20 | 1    | \$8.23            |
| 0-160 PSI                    | TG.NB.160.20 | 1    | \$8.23            |
| 0-200 PSI                    | TG.NB.200.20 | 1    | \$8.23            |

Other Dial  
Sizes are Available Up to 4".  
Please Call for Information.

**AIR TEST GAUGE BELL REDUCER**

- Steel case with 2" dial
- Precision made and assembled with sealant
- Top mount
- Brass 3/4" FPT connection

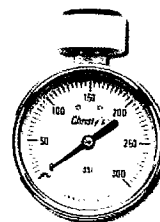
| Description                  | Part Number   | Each | List Price (Each) |
|------------------------------|---------------|------|-------------------|
| 0-15 PSI (1/10th increments) | TG.ABR.15.20  | 1    | \$12.61           |
| 0-30 PSI                     | TG.ABR.30.20  | 1    | \$12.61           |
| 0-60 PSI                     | TG.ABR.60.20  | 1    | \$12.61           |
| 0-100 PSI                    | TG.ABR.100.20 | 1    | \$12.61           |
| Bell Reducer, Only 3/4"      | TG.ABR.BOD    | 1    | \$4.77            |

**LOW PRESSURE AIR TEST GAUGE**

Suited for low pressure measurement where the conventional bourdon tube cannot perform reliably.

- CRN Registered
- 2-1/2" Dial

| Description | Part Number | Each | List Price (Each) |
|-------------|-------------|------|-------------------|
| 0-5 PSI     | TG05        | 1    | \$49.95           |

**WATER TEST GAUGE**

- Precision made
- Brass 3/4" FHT connection
- Steel Case

| Description                               | Dial   | Part Number | Each | List Price (Each) |
|---|--------|-------------|------|-------------------|
| 0-160 PSI                                 | 2"     | TG.W.160.20 | 1    | \$11.60           |
| 0-300 PSI                                 | 2"     | TG.W.300.20 | 1    | \$11.60           |
| 0-160 PSI                                 | 2-1/2" | TG.W.160.25 | 1    | \$13.20           |
| 0-300 PSI                                 | 2-1/2" | TG.W.300.25 | 1    | \$13.20           |
| Swivel Connection-<br>3/4" FHT x 1/4" FPT |        | TG.W.SWC    | 1    | \$2.56            |

**ACCESSORIES****LIQUID FILLED GAUGES**

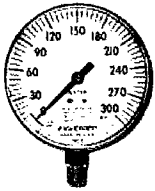
- For service applications where pulsation, corrosion, or vibration is present.
- Stainless steel case
- 1/4" brass MPT connection

**2-1/2" Dial**

| Description                  | Part Number  | Each | List Price (Each) |
|------------------------------|--------------|------|-------------------|
| 0-15 PSI (1/10th increments) | TG.LF.15.25  | 1    | \$30.83           |
| 0-30 PSI                     | TG.LF.30.25  | 1    | \$30.83           |
| 0-60 PSI                     | TG.LF.60.25  | 1    | \$30.83           |
| 0-100 PSI                    | TG.LF.100.25 | 1    | \$30.83           |
| 0-160 PSI                    | TG.LF.160.25 | 1    | \$30.83           |
| 0-200 PSI                    | TG.LF.200.25 | 1    | \$30.83           |
| 0-300 PSI                    | TG.LF.300.25 | 1    | \$30.83           |
| 0-400 PSI                    | TG.LF.400.25 | 1    | \$30.83           |

**4" Dial**

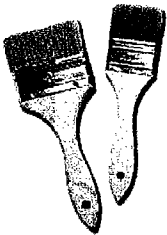
|                              |              |   |         |
|------------------------------|--------------|---|---------|
| 0-15 PSI (1/10th increments) | TG.LF.15.4   | 1 | \$72.88 |
| 0-300 PSI                    | TG.LF.300.4  | 1 | \$72.88 |
| 0-2000 PSI                   | TG.LF.2000.4 | 1 | \$72.88 |
| 0-3000 PSI                   | TG.LF.3000.4 | 1 | \$72.88 |
| 0-5000 PSI                   | TG.LF.5000.4 | 1 | \$72.88 |

**UL/FM FIRE PROTECTION SPRINKLER GAUGE**

- Used on "wet" systems where water is available to sprinkler heads.
- Case material is ABS
- 3-1/2" dial
- Brass 1/4" NPT connection



| Description | Part Number | Each | List Price (Each) |
|-------------|-------------|------|-------------------|
| 0-300 PSI   | 1005PXUL    | 1    | \$19.11           |

**CHIP BRUSH**

General purpose, economical brush. Ideal for mastic and pipe lube application.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 2"          | CB2         | 12        | \$.91*            |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**JOHNNY MOP**

Contractor grade Pipe lube applicator brush. 12" overall length. 4 1/2" mop head for greater lube absorbency. Acid resistant polypropylene strands. *Professionally preferred.*



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Johnny Mop  | PL204       | 100       | \$2.40            |

**ACCESSORIES****TRACER WIRE**

Used in applications requiring power or tracing. Also can be used as THHN, MTW, THWN. See Christy's™ website for specifications. 500' rolls.

| Description                  | Part Number | Case Qty. | List Price (Each) |
|------------------------------|-------------|-----------|-------------------|
| #10 Blue Solid THHN/THWN     | 10BLT500    | 1         | Call              |
| #10 Black Solid THHN/THWN    | 10BT500     | 1         | Call              |
| #10 Green Solid THHN/THWN    | 10GT500     | 1         | Call              |
| #10 Yellow Solid THHN/THWN   | 10YT500     | 1         | Call              |
| #12 Blue Solid THHN/THWN     | 12BLT500    | 1         | Call              |
| #12 Black Solid THHN/THWN    | 12BT500     | 1         | Call              |
| #12 Yellow Solid THHN/THWN   | 12YT500     | 1         | Call              |
| #14 Blue Solid THHN/THWN     | 14BLT500    | 1         | Call              |
| #8 Blue Stranded THHN/THWN   | 8BLS500     | 1         | Call              |
| #10 Blue Stranded THHN/THWN  | 10BLST500   | 1         | Call              |
| #10 Black Stranded THHN/THWN | 10BST500    | 1         | Call              |
| #12 Blue Stranded THHN/THWN  | 12BLS500    | 1         | Call              |
| #14 Blue Stranded THHN/THWN  | 14BLST500   | 1         | Call              |

No prepaid freight allowed for tracer wire.  
**OTHER TYPES OF WIRE ALSO AVAILABLE.**

**ENGINEERING TAPE MEASURE**

The engineering tape measure is in inches and tenths of an inch in a chrome plated case. Easy-to-read nylon-coated steel blade with stud markings. Speed lock holds blade firmly. Triple riveted end hook with shock absorber.

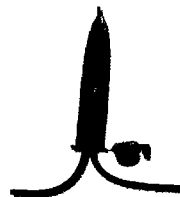
| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 1" x 25'    | 425IE       | 10        | \$19.89*          |

**BARE COPPER WIRE - 500' ROLLS**

| Description              | Part Number | Case Qty. | List Price (Each) |
|--------------------------|-------------|-----------|-------------------|
| #8 Bare Copper Wire      | 8BC500      | 1         | Call              |
| #10 Bare Solid THHN/THWN | 10BC500     | 1         | Call              |
| #12 Bare Solid THHN/THWN | 12BC500     | 1         | Call              |

**SPLIT BOLT CONNECTORS**

| Description                   | Part Number | Case Qty. | List Price (Each) |
|-------------------------------|-------------|-----------|-------------------|
| 8 Sol - Split Bolt Connector  | S4          | 100       | \$26.00           |
| 16 Sol - Split Bolt Connector | S8          | 100       | \$3.90            |

**3M™ SPLICE KITS**

The 3M™ Direct Bury Splice Kit effectively splices and moisture seals two or more conductors in a pigtail application for direct burial. Constructed with a polypropylene tube, flame retardant PVC insulator, and steel spring.

| Description                | Part Number | Case Qty. | List Price (Each) |
|----------------------------|-------------|-----------|-------------------|
| 3M™ Direct Bury Splice Kit | DBR6        | 100/1     | \$3.41            |

**OD TAPE MEASURES UP TO 72"**

The 1/4" x 10' OD Tape Measure is designed for measuring pipe diameters. Polished chrome case. Zero falls in the same place on each side of the blade. Conversion from diameter to circumference by simply turning the blade over. Shows diameter to 1/64". Easy-to-read bold graduations on yellow background. Spring action returns blade to case.

| Description                     | Part Number  | Case Qty. | List Price (Each) |
|---------------------------------|--------------|-----------|-------------------|
| OD Tape Measure                 | TC-OD1410    | 1         | \$9.95*           |
| OD Tape Measure - Private Label | TC-OD1410-PL | 1         | \$9.95*           |

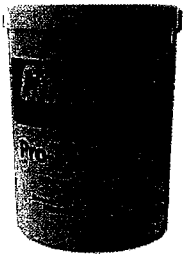
\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.



**ACCESSORIES****CHRISTY'S™ SILVER CLOTH DUCT TAPE**

8 mil. silver cloth duct tape, individually shrink wrapped.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 2" x 60 Yd. | TA-33-DT398 | 24        | \$7.97*           |

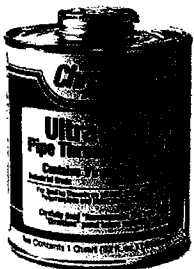
**CHRISTY'S™ PRO-W-WIPES™ HAND CLEANER TOWELS**

Christy's™ Pro-W-Wipes™ are heavy-duty, pre-moistened towels with pumice scrubbing power. They work fast to loosen, dissolve and absorb dirt, grease and solvents using deep cleaning scrubbers that remove embedded grime easily.

These shop size, durable towels quickly remove tough-to-clean substances including: lubricants, oils, ink, tar, wax, caulk,

sealants, epoxy, heavy grease, adhesives and solvent cements. 60 towels per dispenser.

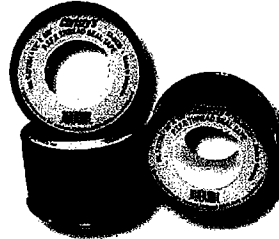
| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Pro-W-Wipes | RH-PW1      | 6         | See Solvents*     |

**CHRISTY'S™ ULTRA SEAL™ THREAD SEALANT**

Smooth, white, non-hardening, soft-set virgin Teflon® paste for all threaded metal and plastic piping applications carrying water, air, steam, petroleum, gases and many chemicals. Contains an anti-galling compound for easy disassembly. Sealing capacity to 3,000 PSI gases and 10,000 PSI liquids. Grit-free. Meets Federal Specification TT-S-1732.

NSF

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 1/4 Pint    | RH-ULTR-QP  | 24        | See Solvents*     |
| 1/2 Pint    | RH-ULTR-HP  | 24        | See Solvents*     |
| Pint        | RH-ULTR-PT  | 12        | See Solvents*     |
| Quart       | RH-ULTR-QT  | 12        | See Solvents*     |

**CHRISTY'S™ PTFE TAPE**

Christy's™ PTFE Tape meets Federal Specification T-27730A and is FDA and AGA Grade. Made from virgin PTFE particles, this PTFE Tape has great stretch/tear properties and is contractor quality. 3.5 mil. thick, .40 density.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 1/2" x 260" | TA-S260     | 100/500   | \$ .40*           |
| 1/2" x 520" | TA-S520     | 100/500   | \$ .54*           |
| 1/2" x 610' | TA-S610     | 100/500   | \$ .60*           |
| 3/4" x 260" | TA-SW260    | 50/350    | \$ .75*           |
| 3/4" x 520" | TA-SW520    | 70/350    | \$ .83*           |
| 1" x 520"   | TA-SX520    | 50/250    | \$1.43*           |

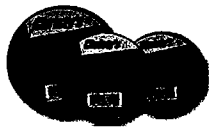
**CHRISTY'S™ PTFE TAPE MERCHANDISER**

Christy's™ PTFE Tape is available in 100 roll dispensers for 1/2" x 520" and 3/4" x 520". Call Christy's™ for details.

| Description                                | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| 1/2" x 520" PTFE Tape - 100 Roll Dispenser | TA-S520DR   | 1         | \$54.00*          |
| 3/4" x 520" PTFE Tape - 100 Roll Dispenser | TA-SW520DR  | 1         | \$83.00*          |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

\* Solvents pricing is available from Christy's™ Solvents & Sealants Catalog and is subject to change. Please call to confirm pricing.

**ACCESSORIES****CHRISTY'S™ PIPEWRAP TAPE**

Christy's™ Pipewrap Tape is printed and IAPMO/UPC listed. Use with Christy's™ Prime-It™ Pipe Wrap Primer (see below). Individually shrink wrapped. For thicker mil tape, see our cold applied AWWA C-209 tapes.

Call for  
Pallet Pricing.



| Description        | Part Number | Case Qty. | Pallet Qty. | List Price (Each) |
|--------------------|-------------|-----------|-------------|-------------------|
| 1" x 100', 10 mil. | TA-33-PW11  | 72        | 3744        | \$2.92*           |
| 1" x 100', 20 mil. | TA-33-PW12  | 48        | 2496        | \$6.62*           |
| 2" x 100', 10 mil. | TA-33-PW21  | 36        | 1872        | \$5.39*           |
| 2" x 100', 20 mil. | TA-33-PW22  | 24        | 1248        | \$10.45*          |
| 4" x 100', 10 mil. | TA-33-PW41  | 12        | 624         | \$11.92*          |
| 4" x 100', 20 mil. | TA-33-PW42  | 12        | 624         | \$23.91*          |

**CHRISTY'S™ PRIME-IT™ PIPEWRAP PRIMER**

Christy's™ Prime-It™ is a synthetic rubber based adhesive designed to bond a variety of porous and non-porous surfaces, specifically to adhere pipe wrap to pipe. IAPMO/UPC listed.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Pint        | RH-PRIM-PT  | 12        | See Solvents*     |
| Quart       | RH-PRIM-QT  | 12        | See Solvents*     |
| Gallon      | RH-PRIM-1   | 6         | See Solvents*     |

**CHRISTY'S™ PRO-LUBE™ PIPE JOINT LUBRICANT**

Christy's™ Pro-Lube™ is an all purpose pipe joint lubricant for joining gasketed pipe and fittings with rubber, synthetic rubber, or plastic gaskets. Water soluble and non-toxic. Packed in plastic tubs.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Quart       | RH-PRO-QT   | 12        | See Solvents*     |
| Gallon      | RH-PRO-GL   | 4         | See Solvents*     |
| 5 Gallons   | RH-PRO-5    | 1         | See Solvents*     |

**CHRISTY'S™ SLICK-WRAP™ PIPE AND HOSE REPAIR KIT**

Christy's™ Slick-Wrap™ is a water activated fiberglass tape that makes repairs to pipe and hose, no tools required.

Pressure tested to 300+ PSI, Slick-Wrap™ will repair any surface including PVC, copper, galvanized, clay pipe, metal, rubber, fiberglass and wood. Slick-Wrap™ will work in many applications including pumps, plumbing, valves, pools, spas, automotive, industrial, residential, commercial and golf course maintenance.

Slick-Wrap™ can be used for all types of water including fresh and salt water, and can be used in temperatures from -60°F to 800°F. Line pressure must be off during installation.

Christy's™ Slick-Wrap™ comes in a clear hang pack. All master cases include counter display merchandiser boxes.

| Description               | Part Number | Case Qty. | List Price (Each) |
|---------------------------|-------------|-----------|-------------------|
| 2" x 60" - Up to 2" Pipe  | PW260       | 12        | See Solvents*     |
| 3" x 108" - Up to 4" Pipe | PW3108      | 12        | See Solvents*     |

**CHRISTY'S™ HANDI-PUMP II & III**

Christy's™ Handi-Pump uses syringe action to provide suction and plunging power. Self lubricating and self-priming, the Handi-Pump is ideal for toilets, valve boxes, meter boxes, spas and pools, bilges, sprinkler heads, and boats.

All PVC plastic quality construction that will not corrode. Double U-cup seal system. Handi-Pumps are bagged and provided with a hang tag.

| Description                             | Part Number | Case Qty. | List Price (Each) |
|---|-------------|-----------|-------------------|
| 12" Body -<br>18 oz capacity per stroke | HP-2        | 1         | \$36.67*          |
| 22" Body -<br>36 oz capacity per stroke | HP-3        | 1         | \$50.00*          |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

\* Solvents pricing is available from Christy's™ Solvents & Sealants Catalog and is subject to change. Please call to confirm pricing.

**HAND TOOL ACCESSORIES****CHRISTY'S™ TIGER PAW GLOVES**

Tiger Paw™ gloves are lightweight and breathable. They work well in plumbing, landscape and irrigation applications.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Medium      | TC-1956M    | 12/144    | \$25.60*          |
| Large       | TC-1956L    | 12/144    | \$25.60*          |
| X-Large     | TC-1956XL   | 12/144    | \$25.60*          |

**CHRISTY'S™ TRADE PRO GLOVES**

Trade Pro™ gloves are the ultimate performance glove designed to endure demanding environments such as demolition, hauling heavy materials, plumbing, drywall and hand tools.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Medium      | TC-1952M    | 12/144    | \$27.95*          |
| Large       | TC-1952L    | 12/144    | \$27.95*          |
| X-Large     | TC-1952XL   | 12/144    | \$27.95*          |

**CHRISTY'S™ CRAFT PRO GLOVES**

Craft Pro™ gloves are designed to allow natural dexterity of three fingers while providing adequate protection from abrasion. Perfect for use with power tools, carpentry and machine operations.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Medium      | TC-1959M    | 12/144    | \$25.60*          |
| Large       | TC-1959L    | 12/144    | \$25.60*          |
| X-Large     | TC-1959XL   | 12/144    | \$25.60*          |

**CHRISTY'S™ GRIP PRO GLOVES**

Grip Pro™ gloves provide superior grip, dexterity and comfort during extended wear. Ideal for carrying soil pipe and sprinkler/pipe installation.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Medium      | TC-1960M    | 12/144    | \$25.60*          |
| Large       | TC-1960L    | 12/144    | \$25.60*          |
| X-Large     | TC-1960XL   | 12/144    | \$25.60*          |

**ATLAS™ NATURAL LATEX GLOVES**

Tight weave cotton string knit with palm and fingers coated in natural blue latex. Highly durable with excellent wet grip. Open back for superior ventilation. Carded.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Medium      | 9680-M      | 12/144    | \$6.40*           |
| Large       | 9680-L      | 12/144    | \$6.40*           |
| X-Large     | 9680-XL     | 12/144    | \$6.40*           |

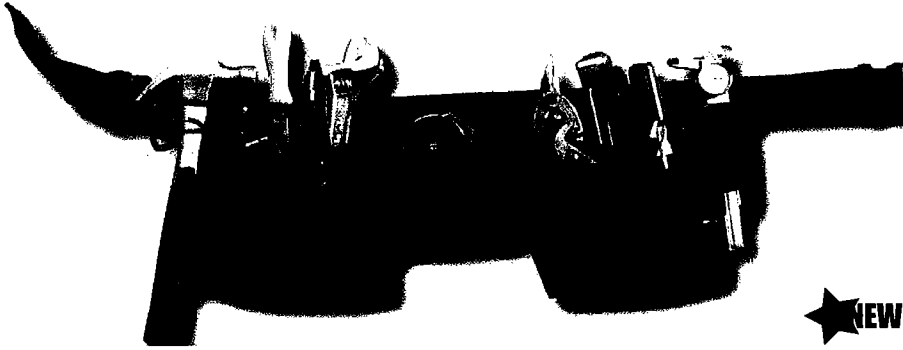
**LATEX DISPOSABLE GLOVES**

Ideal for hand protection during solvent cementing. 100 pieces per box (box quantity only). Powder free.



| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Medium      | 2800-M      | 10        | \$14.54*          |
| Large       | 2800-L      | 10        | \$14.54*          |
| X-Large     | 2800-XL     | 10        | \$14.54*          |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

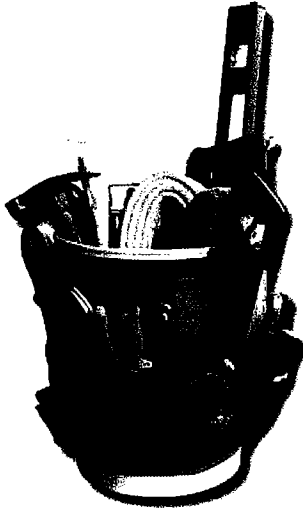
**HAND TOOL ACCESSORIES****CHRISTY'S™ 12 POCKET TOOL BELT**

Christy's™ 12 Pocket Tool Belt contains four main nail and tool pockets, six smaller pockets for pliers and pencils, and a swinging hammer holder. Constructed of 600D polyester with three layers of polyester material to reinforce the bottom and corners of the main pockets. The belt is 2" wide with a nylon buckle, and fits waist sizes 29" to 46".



Christy's 12 Pocket Tool Belt. Tools sold separately.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Tool Belt   | TC-TOLBLT   | 6         | \$26.56*          |

**CHRISTY'S™ 26 POCKET BUCKET APRON**

Christy's™ 26 Pocket Bucket Apron is easy to use and installs on a standard 5-gallon bucket. It keeps tools organized and readily accessible. Ideal for job sites.

| Description  | Part Number | Case Qty. | List Price (Each) |
|--------------|-------------|-----------|-------------------|
| Bucket Apron | TC-BKTAPR   | 24        | \$14.44*          |

Christy's 26 Pocket Bucket Apron. Tools sold separately.

**5 GALLON BUCKET**

High density polyethylene utility bucket with convenient metal handle.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Bucket      | 5GBKT       | 1         | \$8.76*           |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**HAND TOOL ACCESSORIES****CHRISTY'S™ RED RAZOR™**

Heavy duty, industrial quality, ratchet action to 1-5/8" pipe size capacity. A special blade design gives a sharp, light, clean and even quicker cut. The blade is heat treated SK-5 carbon steel with chrome plating. Coated handles. Includes vinyl hang pouch.

| Description                       | Part Number    | Case Qty. | List Price (Each) |
|-----------------------------------|----------------|-----------|-------------------|
| Pipe Cutter to 1-5/8"             | TC.PCRR.158    | 5/30      | \$55.00*          |
| Replacement Blade for TC.PCRR.158 | TC.PCRR.158.BD | 1         | \$19.96*          |

**CHRISTY'S™ RED RAZOR MAX CUT™**

The Red Razor Max Cut™ cuts up to 2" PVC and polyethylene pipe. Ratchet action allows for easy and repeated cutting. It is impulse SK-5 high carbon steel with chrome plating. Coated handles. Includes vinyl hang pouch. Replacement blades are available.

| Description                     | Part Number  | Case Qty. | List Price (Each) |
|---------------------------------|--------------|-----------|-------------------|
| Pipe Cutter to 2"               | TC.PCRR.2    | 5/20      | \$114.93*         |
| Replacement Blade for TC.PCRR.2 | TC.PCRR.2.BD | 1         | \$52.22*          |

**HEAVY DUTY PIPE CUTTER**

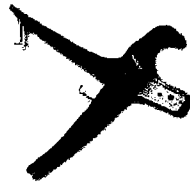
1/2" to 2" capacity. Steel alloy cutting wheels. Ideal for galvanized and copper pipe. Boxed.

| Description  | Part Number | Case Qty. | List Price (Each) |
|--------------|-------------|-----------|-------------------|
| Cutter to 2" | #2          | 1         | \$47.15*          |

**ECONOMY STANDARD TUBING CUTTER**

1/8" to 1-1/8" capacity. Heavy duty cast aluminum housing with steel alloy cutting wheel and rollers. Carded

| Description            | Part Number | Case Qty. | List Price (Each) |
|------------------------|-------------|-----------|-------------------|
| Standard Tubing Cutter | 39-920      | 12        | \$7.65*           |

**CHRISTY'S™ PIPE & HOSE CUTTERS**

Christy's™ spring loaded pipe and hose cutter cuts polyethylene hose, PVC hose and P.B. through 1-3/8". The easy grip handle makes multiple cutting jobs simple. The cutter comes with a reversible stainless steel blade for clean and true cuts. Because the cutter produces

no sawdust it eliminates deburring and the possibility of contaminating the pipe. Carded.

| Description                       | Part Number    | Case Qty. | List Price (Each) |
|-----------------------------------|----------------|-----------|-------------------|
| Pipe & Tubing Cutter to 1-3/8"    | TC.PCSL.138    | 12        | \$13.22*          |
| Replacement Blade for TC.PCSL.138 | TC.PCSL.138.BD | 1         | \$6.56*           |

**LENOX® HOLESAWS**

Bi metal construction with M-2 high speed steel cutting edge. Positive rake tooth and Vari-Tooth design. Resists tooth strippage. Eliminates the need for a torque driving plate. 1-1/2" cutting depth. Can cut through a 2" x 4". Individually boxed.

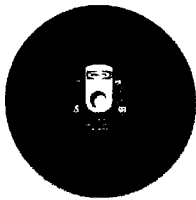
| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 7/8"        | 14L         | 1         | \$13.63*          |
| 1"          | 16L         | 1         | \$14.47*          |
| 1-1/8"      | 18L         | 1         | \$14.47*          |
| 1-1/4"      | 20L         | 1         | \$14.47*          |
| 1-3/8"      | 22L         | 1         | \$15.25*          |
| 1-1/2"      | 24L         | 1         | \$15.25*          |
| 1-5/8"      | 26L         | 1         | \$15.25*          |
| 1-3/4"      | 28L         | 1         | \$19.19*          |
| 1-7/8"      | 30L         | 1         | \$19.19*          |
| 2"          | 32L         | 1         | \$18.62*          |
| 2-1/4"      | 36L         | 1         | \$23.18*          |
| 2-1/2"      | 40L         | 1         | \$24.94*          |
| 3"          | 48L         | 1         | \$25.81*          |
| 3-1/2"      | 56L         | 1         | \$26.56*          |
| 4"          | 64L         | 1         | \$39.06*          |
| 4-1/2"      | 72L         | 1         | \$76.58*          |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**HAND TOOL ACCESSORIES****METAL BLADES**

For use with chop saws using  
1" or 20 mm arbors.  
Made from aluminum oxide.

| Description       | Part Number | Case Qty. | List Price (Each) |
|-------------------|-------------|-----------|-------------------|
| 7" X 5/8" Arbor   | 7MET        | 10/30     | \$3.62*           |
| 12" X 1" Arbor    | 12MET       | 10/30     | \$9.59*           |
| 12" x 20 mm Arbor | 12MET-MM    | 10/30     | \$9.59*           |
| 14" x 1" Arbor    | 14MET       | 10/30     | \$14.44*          |
| 14" x 20 mm Arbor | 14MET-MM    | 10/30     | \$14.44*          |

**MASONRY BLADES**

For use with chop saws using  
1" or 20 mm arbors.  
Made from silicon carbide.

| Description       | Part Number | Case Qty. | List Price (Each) |
|-------------------|-------------|-----------|-------------------|
| 7" X 5/8" Arbor   | 7MAS        | 10/30     | \$3.62*           |
| 12" X 1" Arbor    | 12MAS       | 10/30     | \$9.59*           |
| 12" x 20 mm Arbor | 12MAS-MM    | 10/30     | \$9.59*           |
| 14" x 1" Arbor    | 14MAS       | 10/30     | \$15.16*          |
| 14" x 20 mm Arbor | 14MAS-MM    | 10/30     | \$15.16*          |

**DUCTILE IRON BLADES**

For use with chop saws using  
1" or 20 mm arbors.  
Made from silicon carbide.

| Description       | Part Number | Case Qty. | List Price (Each) |
|-------------------|-------------|-----------|-------------------|
| 12" X 1" Arbor    | 12DI        | 10/30     | \$9.59*           |
| 12" x 20 mm Arbor | 12DI-MM     | 10/30     | \$9.59*           |
| 14" x 1" Arbor    | 14DI        | 10/30     | \$15.78*          |
| 14" x 20 mm Arbor | 14DI-MM     | 10/30     | \$15.78*          |

**ARBOR ADAPTER**

Insert converts 1" arbor to 20 mm arbor.

| Description               | Part Number | Case Qty. | List Price (Each) |
|---------------------------|-------------|-----------|-------------------|
| 1" to 20 mm Arbor Adapter | AACOW       | 1         | \$1.17*           |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**HAND TOOL ACCESSORIES****CHRISTY'S™ 14" PVC/ABS TOOL BOX SAW**

This 14" saw has very fine teeth for smooth sawing. It is ideal for a variety of materials, including PVC, ABS, wood, aluminum and drain pipe. The TC-300 has a tempered steel blade that is durable and long lasting. This is one saw for all applications.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 14" Saw     | TC-300      | 4/48      | \$15.05*          |

**CHRISTY'S™ 12" & 18" PVC/ABS SAWS**

12" and 18" aluminum handle saws. Useful on plywood, asbestos, plastics, hardboard, metals, wood and plastic pipe.

| Description             | Part Number | Case Qty. | List Price (Each) |
|-------------------------|-------------|-----------|-------------------|
| 12" Saw                 | HS433-12    | 12        | \$16.48*          |
| 18" Saw                 | HS433-18    | 12        | \$18.03*          |
| Replacement Blade - 12" | HS433BD-12  | 6/24      | \$6.84*           |
| Replacement Blade - 18" | HS433BD-18  | 6/24      | \$7.44*           |

**PVC/ABS PLASTIC HANDSAWS**

One piece carbon steel construction handle. Spring tempered blade back. Precision milled teeth. Cuts large diameter pipe better than a hacksaw. Single screw blade attachment. Ideal for utility applications.

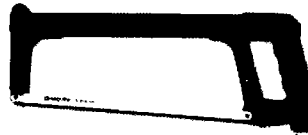
**LENOX**

| Description                    | Part Number | Case Qty. | List Price (Each) |
|--------------------------------|-------------|-----------|-------------------|
| 12" Handsaw                    | HSF-120     | 5         | \$29.94*          |
| 18" Handsaw                    | HSF-180     | 5         | \$33.29*          |
| 12" Blade Only for the HSF-120 | HSB-120     | 5         | \$15.84*          |
| 18" Blade Only for the HSF-180 | HSB-180     | 5         | \$19.75*          |

**CHRISTY'S™ VIPER HACKSAW BLADES**

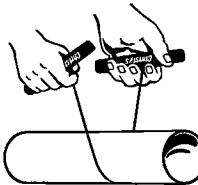
Bi-metal construction with spring steel back. These industrial quality blades are shatter/shock resistant and resistant to high heat. 10 per vinyl hang pack.

| Description       | Part Number | Case Qty. | List Price (Each) |
|-------------------|-------------|-----------|-------------------|
| 12 x 1/2" - 18TPI | TC1218      | 10/100    | \$1.93*           |

**CHRISTY'S™ HIGH TENSION HACKSAW**

High tension durable hacksaw with rubber grip handle. Supplied with 12 x 18 TPI bi-metal blade. Cuts on both 45° and 90°. 12 piece merchandiser.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Hacksaw     | 225X-2      | 12/24     | \$20.49*          |

**CHRISTY'S™ SUPERSAW****STAINLESS CABLE SAWS - ERGO "T" HANDLE**

SuperSaws are made from 7 x 7-3/16" domestic stainless steel aircraft cable, aluminum cable crimps, and heavy duty ergonomic "T" handles. Ideal for any situation where cutting PVC pipe in a confined space is required. Individually bagged with header card.

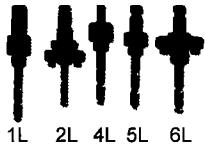
| Description                                      | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| 36" SuperSaw                                     | SCS-36      | 12        | \$8.44*           |
| 48" SuperSaw                                     | SCS-48      | 12        | \$9.44*           |
| 36" SuperSaw Merchandiser<br>30 Piece Board      | SCS-36MD30  | 1         | \$253.20*         |
| 36" SuperSaw Merchandiser<br>2 - 30 Piece Boards | SCS-36MD60  | 2         | \$506.40*         |

The SuperSaw Merchandiser Board holds 30 of our SCS-36 36" stainless cable saws. Pegboard or wall mounted, it is ideal to display where you have walk-in traffic.



\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.



**HAND TOOL ACCESSORIES****LENOX® HOLE SAW ARBORS**

1L 2L 4L 5L 6L



AA1

Durable carbide tips provide extra long life. Large relief area allows debris to move from the cutting edge. Wide variety of adaptors for most tapping machines. Drill motor adaptors for dry taps. Superior quality pilot drills available. All cutters are 1/8" under size for use with any valve.

| Description                | Part Number | Case Qty. | List Price (Each) |
|----------------------------|-------------|-----------|-------------------|
| 9L - 19L, 1/2" Chuck Size  | 1L          | 1         | \$19.66*          |
| 20L - 96L, 1/2" Chuck Size | 2L          | 1         | \$31.79*          |
| 9L - 19L, 1/4" Chuck Size  | 4L          | 1         | \$13.49*          |
| 9L - 19L, 3/8" Chuck Size  | 5L          | 1         | \$20.27*          |
| 20L - 96L, 3/8" Chuck Size | 6L          | 1         | \$30.92*          |
| Arbor Adaptor, Carded      | AA1         | 5         | \$5.17*           |

**LENOX® HOLE SAW EXTENSIONS**

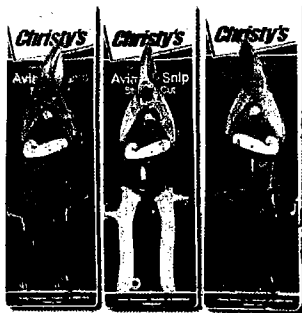
Holesaw Extensions are packaged in a vinyl pouch.

| Description  | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| 12" Extension with 1/2" Chuck, Arbors 1L and 2L    | 12X         | 1         | \$22.61*          |
| 5-1/2" Extension with 1/2" Chuck, Arbors 1L and 2L | 55X         | 1         | \$21.89*          |

**LENOX® PILOT DRILLS**

Pilot Drills are packaged in a vinyl pouch.

| Description                           | Part Number | Case Qty. | List Price (Each) |
|---------------------------------------|-------------|-----------|-------------------|
| Fits 1/4" Drill Chuck for 1L, 2L & 4L | 4321        | 6         | \$6.75*           |

**CHRISTY'S™ AVIATION SNIPS**

Drop forged hardened and tempered alloy steel blades. Vinyl grips. Capacity to 18 gauge sheet metal. Carded.

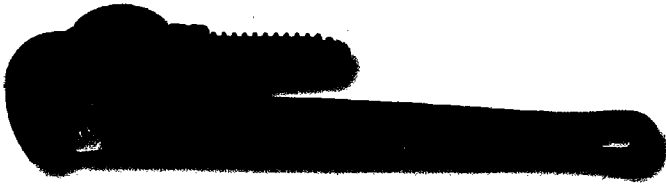
| Description                  | Part Number | Case Qty. | List Price (Each) |
|------------------------------|-------------|-----------|-------------------|
| Left Cut - Red Handle        | TA.AS.102*  | 6         | \$15.44*          |
| Right Cut - Green Handle     | TA.AS.101*  | 6         | \$15.44*          |
| Straight Cut - Yellow Handle | TA.AS.103*  | 6         | \$15.44*          |

**NO HUB TORQUE WRENCH**

5/16" hex socket for tightening nut on worm drive clamps. Hang pack.

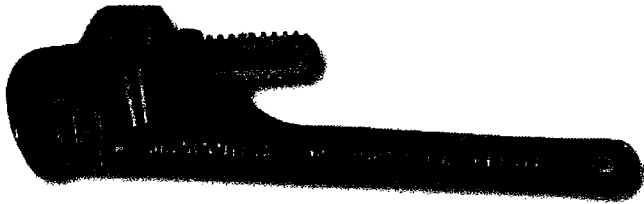
| Description          | Part Number | Case Qty. | List Price (Each) |
|----------------------|-------------|-----------|-------------------|
| No Hub Torque Wrench | NH7020      | 6         | \$22.79*          |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**HAND TOOL ACCESSORIES****CHRISTY'S™ HEAVY DUTY PIPE WRENCHES**

The Christy's™ line of steel pipe wrenches are the highest quality available. Each wrench has a monoblock cast iron handle. The lower jaw is seated to prevent load on the pin. The upper jaw is forged and heat treated.

| Description       | Part Number | Case Qty. | List Price (Each) |
|-------------------|-------------|-----------|-------------------|
| 10"               | TC-SP10     | 6         | \$26.33*          |
| 14"               | TC-SP14     | 6         | \$34.83*          |
| 18"               | TC-SP18     | 3         | \$49.51*          |
| 24"               | TC-SP24     | 1         | \$78.09*          |
| 36"               | TC-SP36     | 1         | \$173.77*         |
| 10" Offset Wrench | TC-SPOS10   | 6         | \$34.01*          |
| 14" Offset Wrench | TC-SPOS14   | 6         | \$46.28*          |

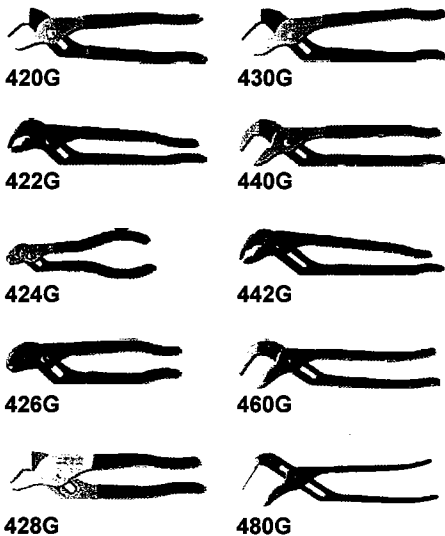
**CHRISTY'S™ ALUMINUM PIPE WRENCHES**

The Christy's™ line of aluminum pipe wrenches are made of heat treated lightweight aluminum. The forged jaw provides hardness for the tenacity of the teeth.

| Description       | Part Number | Case Qty. | List Price (Each) |
|-------------------|-------------|-----------|-------------------|
| 10"               | TC-AP10     | 6         | \$43.50*          |
| 14"               | TC-AP14     | 6         | \$56.95*          |
| 18"               | TC-AP18     | 3         | \$76.87*          |
| 24"               | TC-AP24     | 1         | \$111.15*         |
| 36"               | TC-AP36     | 1         | \$213.79*         |
| 14" Offset Wrench | TC-APOS14   | 6         | \$88.05*          |
| 18" Offset Wrench | TC-APOS18   | 6         | \$124.10*         |

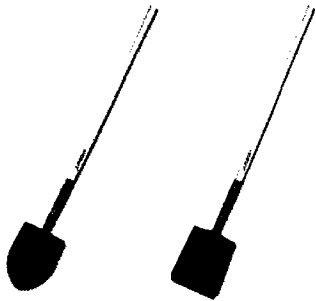
**CHANNELLOCK® TONGUE AND GROOVE PLIERS**

All Channellock® Tongue and Groove Pliers have dipped handles and are carded.



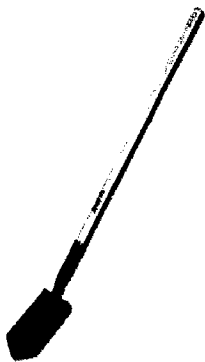
| Part Number | Design Style | Length  | Adjustments | Capacity | Case Qty. | List Price (Each) |
|-------------|--------------|---------|-------------|----------|-----------|-------------------|
| 420G        | Standard     | 9-1/2"  | 5           | 1-1/2"   | 5/20      | \$23.18*          |
| 422G        | Curved Jaw   | 9-1/2"  | 5           | 1-1/2"   | 5/20      | \$23.64*          |
| 424G        | Mini         | 4-1/2"  | 3           | 7/8"     | 5/20      | \$22.47*          |
| 426G        | Small        | 6-1/2"  | 5           | 7/8"     | 5/20      | \$19.59*          |
| 428G        | Safe-T-Stop™ | 8"      | 4           | 1-1/2"   | 5/20      | \$22.47*          |
| 430G        | Standard     | 10"     | 7           | 2"       | 5/20      | \$24.11*          |
| 440G        | Standard     | 12"     | 7           | 2-1/4"   | 5/20      | \$26.42*          |
| 442G        | Curved Jaw   | 12"     | 7           | 2-1/4"   | 5/20      | \$26.42*          |
| 460G        | Standard     | 16"     | 8           | 4-1/4"   | 2/20      | \$45.11*          |
| 480G        | Standard     | 20-1/4" | 12          | 5-1/2"   | 2/20      | \$87.51*          |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**HAND TOOL ACCESSORIES****RAZORBACK SHOVELS**

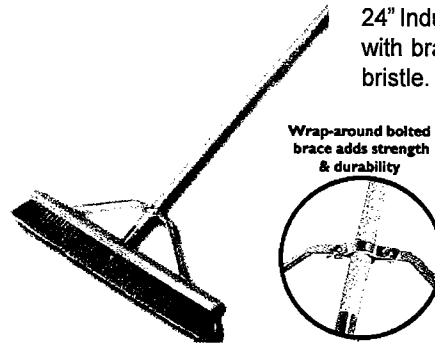
Contractor duty, open-back shovel with 48" white ash handle from Union.

| Description   | Part Number | Case Qty. | List Price (Each) |
|---------------|-------------|-----------|-------------------|
| Round Shovel  | R248        | 6         | \$46.64*          |
| Square Shovel | S248        | 6         | \$46.64*          |

**CHRISTY'S™ WOOD TRENCHING SHOVEL WITH POWER STEP - COLOR CODED**

Formed steel shovel neck with 48" northern ash handle.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 3" - Blue   | CH3TS       | 6         | \$33.82*          |
| 4" - Orange | CH4TS       | 6         | \$33.82*          |
| 5" - Red    | CH5TS       | 6         | \$33.82*          |
| 6" - Green  | CH6TS       | 6         | \$33.82*          |

**24" INDUSTRIAL/CONTRACTOR BROOM**

24" Industrial/Contractor Broom with brace and 4" heavy green bristle.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 24" Broom   | WBB24       | 4         | \$49.58*          |

**CHRISTY'S™ STRAP-IT UTILITY TIE DOWNS**

Christy's™ Strap-It Utility Tie Down Straps use a high-strength poly strapping with a rustproof buckle. Color coded with a 600 lb. capacity. Ideal for securing loads. Individually bar coded and labeled.

| Description                                 | Part Number  | Case Qty. | List Price (Each) |
|---|--------------|-----------|-------------------|
| 3' - Black                                  | ST3          | 24        | \$5.82*           |
| 4' - Red                                    | ST4          | 24        | \$6.40*           |
| 6' - Yellow                                 | ST6          | 24        | \$7.36*           |
| 8' - Green                                  | ST8          | 24        | \$8.16*           |
| 10' - Blue                                  | ST10         | 24        | \$9.20*           |
| 12' - Black                                 | ST12         | 24        | \$10.27*          |
| 30 Piece Merchandiser Box - 5 each 3' - 12' | ST-MIXED-KIT | 1         | \$236.24*         |

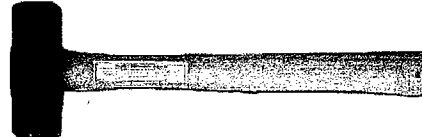
Strap-It Tie Downs are also available in a 30 piece merchandiser box that contains 5 each of the ST3, ST4, ST6, ST8, ST10 and the ST12. The top folds over for protection in shipping and is easily pulled back for product display.



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**CHRISTY'S™ STRIKING TOOLS****SLEDGES & MALLETS**

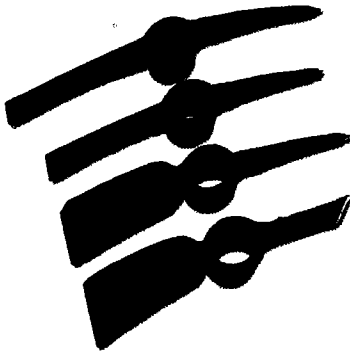
Hardened and tempered fully polished head. Hickory handle.

**FIBERGLASS HANDLE SLEDGEHAMMER**

Hardened and tempered fully polished forged steel head. Fiberglass handle.

| Description               | Part Number | Case Qty. | List Price (Each) |
|---------------------------|-------------|-----------|-------------------|
| 4 lb. Sledge, 15" Handle  | 62-324      | 2         | \$21.11*          |
| 6 lb. Sledge, 36" Handle  | 62-326      | 2         | \$30.00*          |
| 8 lb. Sledge, 36" Handle  | 62-328      | 2         | \$33.22*          |
| 10 lb. Sledge, 36" Handle | 62-330      | 2         | \$37.67*          |
| 12 lb. Sledge, 36" Handle | 62-332      | 2         | \$47.78*          |
| 16 lb. Sledge, 36" Handle | 62-336      | 2         | \$58.89*          |

| Description               | Part Number | Case Qty. | List Price (Each) |
|---------------------------|-------------|-----------|-------------------|
| 3 lb. Sledge, 16" Handle  | 65-163      | 2         | \$20.89*          |
| 4 lb. Sledge, 16" Handle  | 65-164      | 2         | \$21.67*          |
| 6 lb. Sledge, 36" Handle  | 65-166      | 2         | \$28.53*          |
| 8 lb. Sledge, 36" Handle  | 65-168      | 2         | \$43.33*          |
| 10 lb. Sledge, 36" Handle | 65-170      | 2         | \$50.89*          |
| 12 lb. Sledge, 36" Handle | 65-172      | 2         | \$55.00*          |

**PICKS & MATTOCKS**

| Description                         | Part Number | Case Qty. | List Price (Each) |
|-------------------------------------|-------------|-----------|-------------------|
| 5 lb. Pick Mattock, Head Only       | 64-150      | 6         | \$15.00*          |
| 5 lb. Pick Mattock/Hickory Handle   | 64-151      | 1         | \$30.00*          |
| 5 lb. Cutter Mattock, Head Only     | 64-250      | 6         | \$15.00*          |
| 5 lb. Cutter Mattock/Hickory Handle | 64-251      | 1         | \$30.00*          |
| 5 lb. Railroad Pick, Head Only      | 64-350      | 6         | \$15.00*          |
| 5 lb. Railroad Pick/Hickory Handle  | 64-351      | 1         | \$30.00*          |
| 6 lb. Railroad Pick, Head Only      | 64-360      | 6         | \$16.67*          |
| 6 lb. Railroad Pick/Hickory Handle  | 64-361      | 1         | \$33.22*          |

**REPLACEMENT HANDLES**

| Description                                      | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| 16" Hickory Handle for 2 - 4 lb. Sledge Hammers  | 69-216      | 12        | \$5.56*           |
| 36" Hickory Handle for 6 - 16 lb. Sledge Hammers | 69-236      | 12        | \$11.67*          |
| 36" Premium Coated Hickory Handle for Picks      | 69-636      | 12        | \$15.44*          |
| 36" Fiberglass Handle for Picks                  | 69-196      | 12        | \$31.73*          |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**ASPHALT TOOLS****FIBERGLASS POSTHOLE DIGGER**

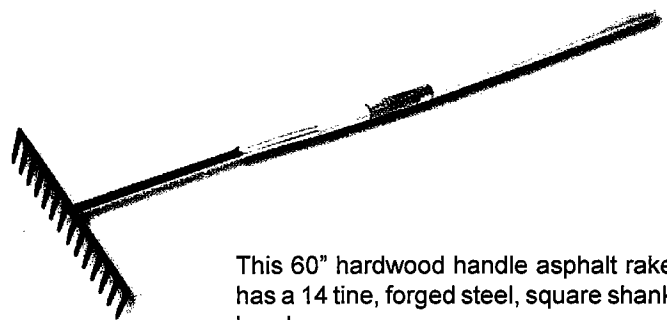
This Fiberglass Posthole Digger provides maximum strength for the most demanding industrial and commercial digging applications. 4' yellow fiberglass handles, 6-1/4" point spread.

| Description       | Part Number | Case Qty. | List Price (Each) |
|-------------------|-------------|-----------|-------------------|
| Fiberglass Digger | PD48        | 1         | \$105.83          |

**FIBERGLASS SUPER SHOVEL**

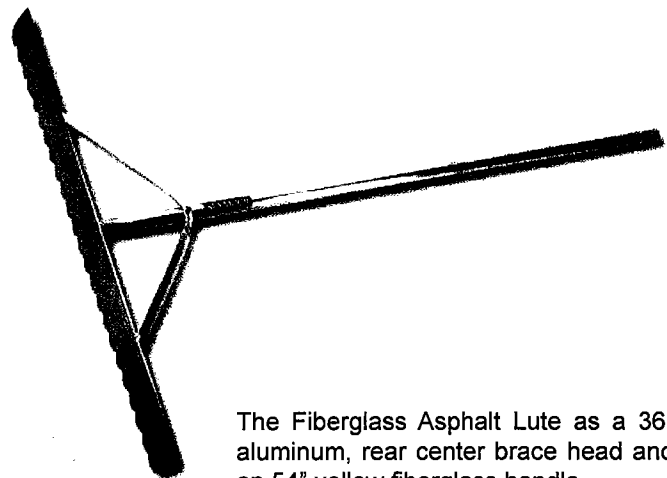
Super Shovel tools have cutting teeth to penetrate hard-packed soils and chop through roots and sod. Front turn step, 48" yellow fiberglass handle, square socket, PermaGrip™ collar, cushion grip, head size 2.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 48" Shovel  | S710        | 1         | \$85.67           |

**60" HARDWOOD ASPHALT RAKE**

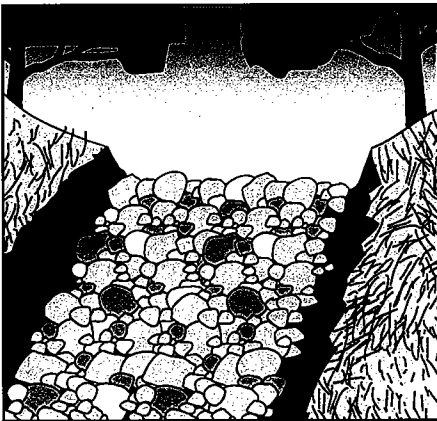
This 60" hardwood handle asphalt rake has a 14 tine, forged steel, square shank head.

| Description  | Part Number | Case Qty. | List Price (Each) |
|--------------|-------------|-----------|-------------------|
| Asphalt Rake | AR30        | 1         | \$97.38           |

**FIBERGLASS ASPHALT LUTE**

The Fiberglass Asphalt Lute as a 36" aluminum, rear center brace head and an 54" yellow fiberglass handle.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Lute        | AL36        | 1         | \$141.22          |

**CHRISTY'S™ DRAIN/FILTER FABRIC****FILTER FABRIC**

- Use for dewatering and run-off protection
- Use behind retaining walls
- Use around perforated pipe to keep out debris and maintain water flow
- Protect septic drainage systems from silt and native soil backfill

**EROSION CONTROL**

- Reduce landscape slope runoff
- Keep decorative material in place on slopes or hills

**SEPARATION**

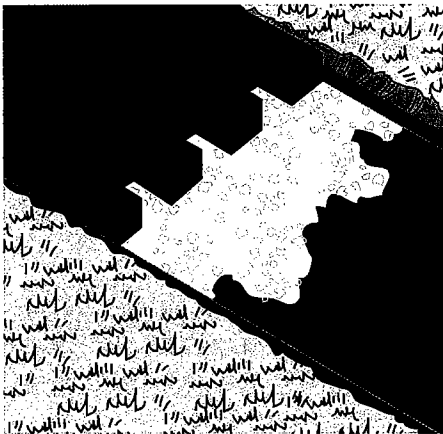
- Creates stable subsoil with less ground movement
- Use under mortar, pavers, crushed rock or mulch paths to increase longevity
- Minimize the effects of rutting, low spots and ground heave on patios and driveways
- Prevent the mixing of soil with the aggregate or sand base

**PRODUCT BENEFITS**

- Professional grade
- High strength, dimensionally stable
- Won't fray or unravel
- Inert to common soil chemicals

**PRODUCT USES**

- Filter Fabric
- Soil Separation
- Septic and Drainage Systems
- Landscaped Slopes
- Retaining Walls
- Weed Barrier
- Pond Underlayment

*Actual Fabric Sample***3.1 oz Nonwoven Needle punched****3.1 oz Drain and Filter Fabric**

| Width | Roll Length | Total Sq. Feet | Part No.      | Packaging | List Price (Each) |
|-------|-------------|----------------|---------------|-----------|-------------------|
| 3'    | 50'         | 150            | TC-DF3650-3   | Bulk      | \$20.40           |
| 3'    | 100'        | 300            | TC-DF36100-3  | Bulk      | \$40.80           |
| 3'    | 300'        | 900            | TC-DF36300-3  | Bulk      | \$116.11          |
| 3'    | 360'        | 1080           | TC-DF36360-3  | Bulk      | \$139.31          |
| 4'    | 50'         | 200            | TC-DF4850-3   | Bulk      | \$27.20           |
| 4'    | 100'        | 400            | TC-DF48100-3  | Bulk      | \$54.40           |
| 4'    | 300'        | 1200           | TC-DF48300-3  | Bulk      | \$154.80          |
| 4'    | 360'        | 1440           | TC-DF48360-3  | Bulk      | \$185.76          |
| 5'    | 100'        | 500            | TC-DF60100-3  | Bulk      | \$68.00           |
| 5'    | 300'        | 1500           | TC-DF60300-3  | Bulk      | \$193.51          |
| 5'    | 360'        | 1800           | TC-DF60360-3  | Bulk      | \$232.20          |
| 6'    | 300'        | 1800           | TC-DF72300-3  | Bulk      | \$232.20          |
| 6'    | 360'        | 2160           | TC-DF72360-3  | Bulk      | \$278.64          |
| 7.5'  | 300'        | 2250           | TC-DF90300-3  | Bulk      | \$290.24          |
| 7.5'  | 360'        | 2700           | TC-DF90360-3  | Bulk      | \$348.31          |
| 12'   | 300'        | 3600           | TC-DF144300-3 | Bulk      | \$464.40          |
| 12'   | 360'        | 4320           | TC-DF144360-3 | Bulk      | \$557.29          |
| 12.5' | 300'        | 3750           | TC-DF150300-3 | Bulk      | \$483.75          |
| 12.5' | 360'        | 4500           | TC-DF150360-3 | Bulk      | \$580.51          |
| 15'   | 300'        | 4500           | TC-DF180300-3 | Bulk      | \$580.51          |
| 15'   | 360'        | 5400           | TC-DF180360-3 | Bulk      | \$696.60          |

**CHRISTY'S™ DRAIN/FILTER FABRIC***Actual Fabric Sample***4.0 oz Nonwoven Needleponched  
DOT Approved****4 oz  
NONWOVEN  
DOT  
APPROVED****4.0 oz Drain and Filter Fabric**

| Width | Roll Length | Total Sq. Feet | Part No.      | Packaging | List Price (Each) |
|-------|-------------|----------------|---------------|-----------|-------------------|
| 3'    | 50'         | 150            | TC-DF3650-4   | Bulk      | \$20.85           |
| 3'    | 100'        | 300            | TC-DF36100-4  | Bulk      | \$41.70           |
| 3'    | 360'        | 1080           | TC-DF36360-4  | Bulk      | \$152.40          |
| 4'    | 50'         | 200            | TC-DF4850-4   | Bulk      | \$27.80           |
| 4'    | 100'        | 400            | TC-DF48100-4  | Bulk      | \$55.65           |
| 4'    | 360'        | 1440           | TC-DF48360-4  | Bulk      | \$203.15          |
| 5'    | 360'        | 1800           | TC-DF60360-4  | Bulk      | \$273.00          |
| 6'    | 100'        | 600            | TC-DF72100-4  | Bulk      | \$91.00           |
| 6'    | 360'        | 2160           | TC-DF72360-4  | Bulk      | \$291.65          |
| 7.5'  | 50'         | 375            | TC-DF9050-4   | Bulk      | \$52.25           |
| 7.5'  | 100'        | 750            | TC-DF90100-4  | Bulk      | \$104.24          |
| 7.5'  | 360'        | 2700           | TC-DF90360-4  | Bulk      | \$364.50          |
| 12'   | 360'        | 4320           | TC-DF144360-4 | Bulk      | \$583.20          |
| 12.5' | 360'        | 4500           | TC-DF150360-4 | Bulk      | \$607.50          |
| 15'   | 360'        | 5400           | TC-DF180360-4 | Bulk      | \$729.00          |

*Actual Fabric Sample***7.0 oz Nonwoven Needleponched****7.0 oz Drain and Filter Fabric**

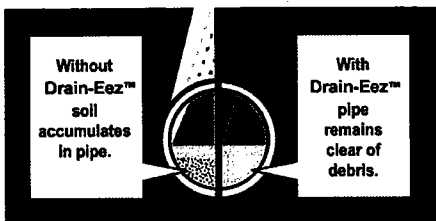
| Width | Roll Length | Total Sq. Feet | Part No.      | Packaging | List Price (Each) |
|-------|-------------|----------------|---------------|-----------|-------------------|
| 3'    | 300'        | 900            | TC-DF36300-7  | Bulk      | \$190.00          |
| 4'    | 300'        | 1200           | TC-DF48300-7  | Bulk      | \$253.33          |
| 5'    | 300'        | 1500           | TC-DF60300-7  | Bulk      | \$316.67          |
| 6'    | 300'        | 1800           | TC-DF72300-7  | Bulk      | \$380.00          |
| 7.5'  | 300'        | 2250           | TC-DF90300-7  | Bulk      | \$475.00          |
| 12'   | 300'        | 3600           | TC-DF144300-7 | Bulk      | \$760.00          |
| 12.5' | 300'        | 3750           | TC-DF150300-7 | Bulk      | \$750.00          |
| 15'   | 300'        | 4500           | TC-DF180300-7 | Bulk      | \$900.00          |

**8.0 oz Drain and Filter Fabric**

| Width | Roll Length | Total Sq. Feet | Part No.      | Packaging | List Price (Each) |
|-------|-------------|----------------|---------------|-----------|-------------------|
| 12.5' | 360'        | 4500           | TC-DF150360-8 | Bulk      | \$950.00          |
| 15'   | 300'        | 4500           | TC-DF180300-8 | Bulk      | \$950.00          |

**Product Specifications Are Available. Please Call.**



**CHRISTY'S™ DRAIN/FILTER FABRIC****CHRISTY'S™ DRAIN-EEZ™ PERFORATED PIPE SLEEVING SOCK - 3.1 oz**

Drain-EEZ™ encases drain pipe and prevents small particle/ soil drain system contamination and clogging.

| Part Number | Size                            | Packaging | List Price (Each) |
|-------------|---------------------------------|-----------|-------------------|
| TC-DE310    | 3" x 10' - for 3" nominal pipe  | Each      | \$7.52            |
| TC-DE3100   | 3" x 100' - for 3" nominal pipe | Each      | \$36.13           |
| TC-DE410    | 4" x 10' - for 4" nominal pipe  | Each      | \$9.13            |
| TC-DE4100   | 4" x 100' - for 4" nominal pipe | Each      | \$38.20           |
| TC-DE6100   | 6" x 100' - for 6" nominal pipe | Each      | \$50.75           |

**PRODUCT APPLICATIONS**

- Sleeve perforated drain pipe to protect drainage systems from silt and native backfill
- Keep out debris. Maintain water flow
- Confine the need for controlled gradation granular fill material
- Allows the use of higher permeability drainage media
- Prevent the mixing of soil with the aggregate or sand base

**PRODUCT BENEFITS**

- Easy to use and install
- High strength, dimensionally stable material formulated to resist UV deterioration
- Inert to commonly occurring soil chemicals

**DRAIN-EEZ™ APPLICATIONS**

- PVC Drain Pipe - ASTM-D2729
- PVC SDR35 Pipe - ASTM-D3034
- PVC Schedule 40 Pipe - ASTM-D1785
- HDPE Corrugated Pipe - ASTM-F405
- HDPE Smoothwall Pipe - ASTM-F810
- HDPE Dual Wall Pipe - AASHTO-M252

**CHRISTY'S™ GRAVEL BAGS**

| Part No.    | Size      | Packaging | List Price (Each) |
|-------------|-----------|-----------|-------------------|
| TC-GB0848-7 | 8" x 48"  | Bulk      | \$2.88            |
| TC-GB1248-7 | 12" x 48" | Bulk      | \$3.59            |
| TC-GB1426-7 | 14" x 26" | Bulk      | \$3.16            |
| TC-GB1624-4 | 16" x 24" | Bulk      | \$3.16            |
| TC-GB3030-7 | 30" x 30" | Bulk      | \$3.59            |

**PRODUCT APPLICATIONS**

- Alternative to conventional sand and gravel bags for dewatering or run-off protection
- Fill with various media (sand to gravel) to meet specific project needs

**PRODUCT BENEFITS**

- High strength, dimensionally stable material formulated to resist UV deterioration
- Inert to commonly occurring soil chemicals
- Long lasting, non-biodegradable, won't rot or mildew

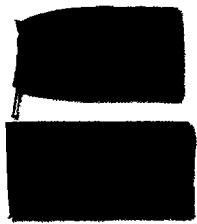
**DEWATERING BAGS****DEWATERING FILTER BAGS**

Dewatering Filter Bags

Our Dewatering Filter Bags are effective in collecting sediment from dewatering operations as sediment-laden water is pumped into the bag. The 8 oz nonwoven needle-punched geotextile is strong and permeable and provides up to 100 gpm/ft<sup>2</sup> water flow.

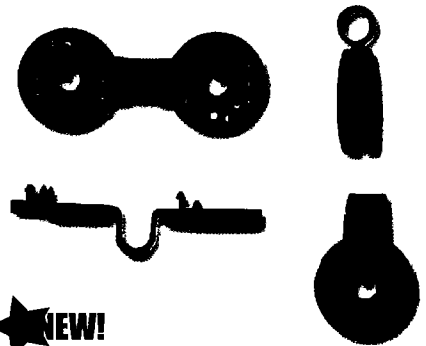
Simply place the filter bag on a level area (the bags can roll down slopes), insert the discharge hose from the pump into the bag and secure the connection with a clamp or tie wire. These filter bags can handle most applications utilizing a 2" to 6" discharge hose. Note that high pumping rates and high sediment loads can cause the bag to burst.

| Description                     | Part Number | Case Qty. | List Price (Each) |
|---------------------------------|-------------|-----------|-------------------|
| 2' x 13' for 1" discharge hose  | TC-DWB213   | 1         | \$53.69           |
| 10' x 15' for 2" discharge hose | TC-DWB1015  | 1         | \$176.67          |
| 15' x 20' for 3" discharge hose | TC-DWB1520  | 1         | \$285.56          |
| 15' x 25' for 4" discharge hose | TC-DWB1525  | 1         | \$353.33          |
| 15' x 35' for 6" discharge hose | TC-DWB1535  | 1         | \$442.22          |

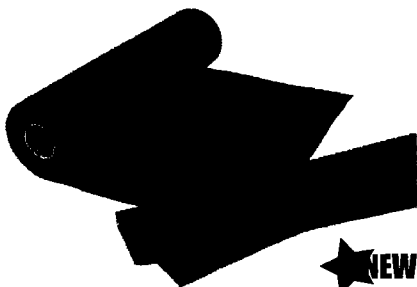
**SEDIMENT CONTROL FILTER BAGS**

Fill these Erosion Control Filter Bags with aggregate and place in run-off to trap sediment and filter water. Listed on VI D.O.T. P.A.L.

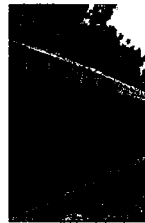
| Description             | Part Number  | Case Qty. | List Price (Each) |
|-------------------------|--------------|-----------|-------------------|
| 12" x 22" with Draw Tie | TC-SCFB1222W | 500       | \$2.20            |
| 16" x 30" with Draw Tie | TC-SCFB1630W | 500       | \$2.54            |
| 16" x 30" (no Draw Tie) | TC-SCFB1630  | 500       | \$2.50            |
| 17" x 30" (no Draw Tie) | TC-SCFB1730  | 500       | \$2.54            |

**CLIP-ITS INSTANT PLASTIC GROMMETS**

Clip-Its Instant Plastic Grommets are constructed of high impact plastic. They're versatile, strong and easy to use. Great for privacy screen, shade cloth, tarps, all knitted and mesh fabrics.

**PRIVACY SCREEN**

Our Privacy Screen restricts visual intrusion and passerby attraction and conceals unsightly areas. Use at construction sites, parks & recreation, retention areas, for highway departments and more. Available in many sizes with or without button holes.



| Description                        | Part Number   | Case Qty. | List Price (Each) |
|------------------------------------|---------------|-----------|-------------------|
| 44" x 150' Economy Green           | TC-PSEG44150  | 1         | \$235.56          |
| 68" x 150' Economy Green           | TC-PSEG-68150 | 1         | \$306.67          |
| 92" x 150' Economy Green           | TC-PSEG-92150 | 1         | \$366.67          |
| 48" x 150' Green with Button Holes | TC-PSGH48150  | 1         | \$233.33          |
| 72" x 150' Green with Button Holes | TC-PSGH72150  | 1         | \$293.33          |
| 96" x 150' Green with Button Holes | TC-PSGH96150  | 1         | \$377.78          |

| Description               | Part Number | Case Qty. | List Price (Each) |
|---------------------------|-------------|-----------|-------------------|
| Clip-Its Instant Grommets | TC.CLIP     | 800       | \$ .80            |

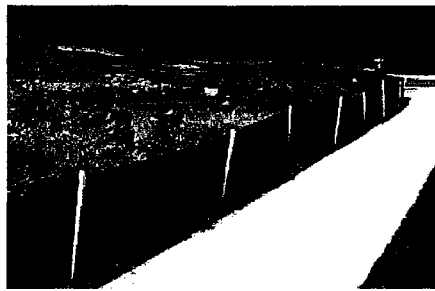


**BARRIER FENCING****EZ POCKET-NET FENCE**

A Christy's™ exclusive, the EZ Pocket-Net Fence has pockets located in the material every three feet, making it easy to install and maintain. For a secure fence that doesn't sag, posts are inserted into pockets and caps are

used to avoid slippage. Zip ties may be added for additional stability if being used as a snow fence or in a windy environment. The EZ Pocket-Net Fence is available in orange and the kit includes plastic caps and sleeves. **Posts are not included.** We recommend using t-posts, rebar, or stakes.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 4' x 50'    | PNFO-0450   | 1         | \$65.22           |
| 4' x 100'   | PNFO-04100  | 1         | \$110.16          |
| 4' x 150'   | PNFO-04150  | 1         | \$160.56          |

**BLACK SILT EROSION FENCING**

Our Silt Fencing is a temporary sediment barrier made of woven, synthetic filtration fabric supported by wood stakes. Silt fencing prevents sediment carried by sheet

flow from leaving a site and entering natural drainage ways or storm drainage systems by slowing storm water runoff and causing the deposit of sediment at the silt fence.

| Description  | Part Number | Pallet Qty. | List Price (Each) |
|--|-------------|-------------|-------------------|
| 3' x 100' - 10' Center Stakes                            | SF36100B-10 | 25          | \$35.14           |
| 3' x 100' - 8' Center Stakes<br>(DOT Approved - 8' only) | SF36100B-8  | 25          | \$45.00           |

**No prepaid freight allowed for Black Erosion Fencing**

**CHRISTY'S™ ORANGE SAFETY CONSTRUCTION FENCING**

Christy's ISO 9001 high visibility heavy-weight safety fencing is manufactured from HDPE and stabilized with U.V inhibitors for long-term outdoor sun protection. Perfect for jobsite protection or marking areas of danger.

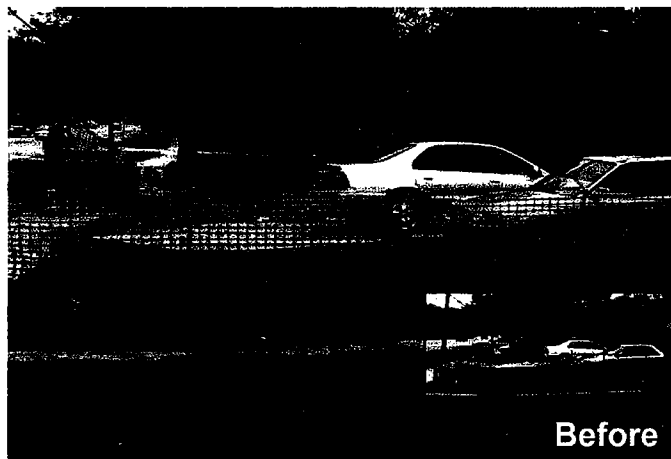
| Description | Part Number | Weight/<br>Roll (lbs.) | Pallet Qty. | List Price (Each) |
|-------------|-------------|------------------------|-------------|-------------------|
| 4' x 50'    | TC.OSC.450  | 6.5                    | 100         | \$22.56           |
| 4' x 100'   | TC.OSC.4100 | 13.41                  | 50          | \$45.00           |

**ORANGE SAFETY BAR CAP**

Use with all types of safety and barrier fencing material. Available in Safety Orange color. Fits standard "T" post, rebar from 1/2" to 1", conduit or water pipe. Can be used in place of a Mushroom Bar Cap. **Reusable.**

**Sold by case quantity only.**

| Description           | Part Number | Case Qty. | List Price (Case) |
|-----------------------|-------------|-----------|-------------------|
| Orange Safety Bar Cap | SFC1        | 200       | \$92.59           |



**Before**

**SAFETY & JOB-SITE ACCESSORIES****LOADBUSTER CLEAN-UP BAGS**

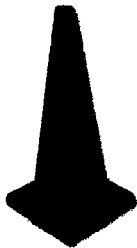
These strong and durable clean-up bags are a heavy 3 mil and measure 32" x 50". They fit 32-43 gallons. Loadbuster bags come on a roll.

| Description | Part Number | Case Qty. | List Price (per Box) |
|-------------|-------------|-----------|----------------------|
| 20 bags/box | TCGB320     | 1         | \$24.14*             |
| 50 bags/box | TCGB350     | 1         | \$58.18*             |

**SAFETY VESTS**

These safety vests are constructed of 100% polyester fluorescent neon green material with orange safety stripes. They also include a non-corrosive zipper front closure and multiple pockets.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Large       | SVGL-L      | 6/24      | \$26.56*          |
| X-Large     | SVGL-XL     | 6/24      | \$26.56*          |
| XX-Large    | SVGL-XXL    | 6/24      | \$26.56*          |

**GLO-ORANGE SAFETY CONES**

Christy's™ PVC injection molded traffic cones are made with a high quality PVC material that is designed to last. Choose from 7 Lb. street approved cones or 10 Lb. highway approved cones.

| Description                   | Part Number | Case Qty. | List Price (Each) |
|-------------------------------|-------------|-----------|-------------------|
| 28" 7 Lb. - Street Approved   | SC-287      | 1         | \$21.28*          |
| 28" 10 Lb. - Highway Approved | SC-2810     | 1         | \$28.06*          |

**SAFETY EARPLUGS - 50 PER TUB**

| Description         | Part Number | Case Qty. | List Price (per Tub) |
|---------------------|-------------|-----------|----------------------|
| Foam Corded Earplug | CP304-50    | 10        | \$93.46*             |

**CHRISTY'S™ NEOMASK**

Christy's™ Neomask is a multifunction antipollution face mask constructed from neoprene, a hydro-allergenic and stretchable material. The Neomask conforms easily to facial features, allowing a good seal around the face and providing a comfortable fit.

The Neomask is also equipped with a carbon activated filter cloth that helps reduce exposure to organic vapors, dusts and other airborne particles, even those containing oil. It is also designed with a rapid airflow valve system for easy exhalation.

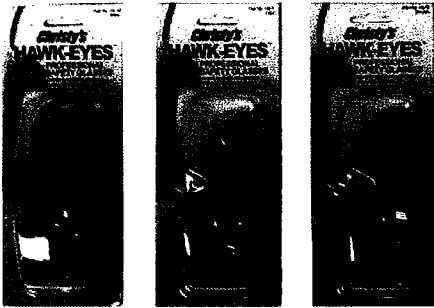
Also included with the Neomask are attached earplugs that are ideal for construction, sanding, cleaning, machining and painting. It's been rigorously tested for quality and performance.

One size fits all. **New clamshell pack contains 10 free paper filters.**



| Description                                 | Part Number  | Case Qty. | List Price (Each) |
|---|--------------|-----------|-------------------|
| Neomask Washable Mask with 10 paper filters | TC-NEO-PACK* | 12        | \$35.44*          |
| Replaceable Carbon Filter                   | TC-NEO-CF    | 12        | \$13.89*          |
| Replaceable Paper Filter (10 pieces/ pack)  | TC-NEO-PF    | 1         | \$6.00*           |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**SAFETY & JOB-SITE ACCESSORIES****CHRISTY'S™ HAWK-EYES™ SAFETY GLASSES**

All Hawk Eye™ glasses have a special anti-mist coating to help prevent fogging. The lenses are impact and scratch resistant and are 100% polycarbonate. **One premium retention cord comes with every pair.** Hawk Eyes™ have UVA-UVB protection and meet ANSI Z87.1 National Safety Standards, OSHA Safety Standards for industrial safety glasses and ANSI Z 80.3 UV filtration requirements. Packaged in a clear hang box.

| Description             | Part Number | Case Qty. | List Price (Each) |
|-------------------------|-------------|-----------|-------------------|
| Clear Safety Glasses    | HE-C        | 6/24      | \$11.67*          |
| Mirrored Safety Glasses | HE-M        | 6/24      | \$11.67*          |
| Smoke Safety Glasses    | HE-S        | 6/24      | \$11.67*          |

**WAREHOUSE SUPPLIES**

Great for warehouse

**PACKAGING TAPE - CLEAR POLYPROPYLENE**

| Description        | Part Number    | Case Qty. | List Price (Each) |
|--------------------|----------------|-----------|-------------------|
| 2" x 55 Yd, 2 mil  | TA-33-400C     | 36        | \$1.86*           |
| 2" x 110 Yd, 2 mil | TA-33-400C-110 | 36        | \$3.29*           |

**FILAMENT TAPE - MEDIUM TENSILE**

| Description   | Part Number  | Case Qty. | List Price (Each) |
|---------------|--------------|-----------|-------------------|
| 3/4" X 60 Yd. | TA-33-193075 | 48        | \$3.24*           |
| 1" x 60 Yd.   | TA-33-193100 | 36        | \$4.18*           |

**SHRINK WRAP - 80 GAUGE**

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 18" x 1500' | TA-SHRN     | 4         | \$31.45*          |
| 20" x 1000' | TA-SR2080EC | 4         | \$26.50*          |

20" includes extended core to use as handles

**PALLET COVERS - Protect palletized loads from dust and debris.**

| Description   | Part Number  | Case Qty. | List Price (Each) |
|---|--------------|-----------|-------------------|
| 51" x 49" x 73" Tall Pallet Cover                   | TC-PLTCOV    | 6         | \$196.42*         |
| 63" x 49" x 85" Tall Pallet Cover for Water Heaters | TC-PLTCOV-WH | 6         | \$213.50*         |

**RED MESH WAREHOUSE SHOP NIPPLE FITTING BAG, 40 LB**

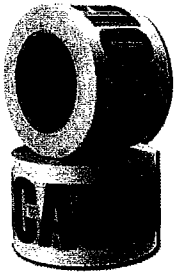
| Description   | Part Number | Case Qty. | List Price (Each) |
|---------------|-------------|-----------|-------------------|
| 16" x 12"     | NB16        | 1         | \$1.23            |
| 24" x 18-1/2" | NB24        | 1         | \$1.67            |

**PLASTIC WAREHOUSE BAGS - CLEAR, 6 MIL**

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 12" x 18"   | RP1218      | 250       | \$103.04          |



\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**WARNING TAPES****CAUTION TAPE**

Manufactured with 3 mil virgin LLDPE/ LDPE. Elongation is >400% at break point. Additional legends and colors are also available.

**DANGER TAPE**

Manufactured with 3 mil virgin LLDPE/ LDPE. Elongation is >400% at break point. Additional legends and colors are also available.

| Description              | Part Number   | Case Qty. | List Price (Each) |
|--------------------------|---------------|-----------|-------------------|
| 3" x 300' Caution Tape   | TA-CTN-3-300  | 30        | \$8.78*           |
| 3" x 1,000' Caution Tape | TA-CTN-3-1000 | 8         | \$15.44*          |

| Description             | Part Number   | Case Qty. | List Price (Each) |
|-------------------------|---------------|-----------|-------------------|
| 3" x 300' Danger Tape   | TA-DNG-3-300  | 12        | \$8.78*           |
| 3" x 1,000' Danger Tape | TA-DNG-3-1000 | 8         | \$15.44*          |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**OTHER WARNING TAPES**

All Christy's™ warning tapes are manufactured with 3 mil virgin LLDPE/ LDPE. Elongation is >400% at break point. Additional legends and colors are also available.

Excellent  
Point-of-Purchase Sale Items



| Description   | Color  | Part Number | Case Qty. | List Price (Each) |
|---|--------|-------------|-----------|-------------------|
| 3" x 1000' "Danger - High Voltage Area Keep Out"    | Red    | TA-ND-3-RHV | 8         | \$14.45           |
| 3" x 1000' "Hazardous Area - Keep Out"              | Yellow | TA-ND-3-YKO | 8         | \$14.45           |
| 3" x 1000' "Caution - Open Trench Area"             | Yellow | TA-ND-3-YOT | 8         | \$14.45           |
| 3" x 1000' "Caution - Tree Protection Area"         | Yellow | TA-ND-3-YTP | 8         | \$14.45           |
| 3" x 1000' "Caution - Wet Paint Area - Keep Out"    | Yellow | TA-ND-3-YWP | 8         | \$14.45           |
| 3" x 1000' "Warning Restricted Area - Do Not Enter" | Yellow | TA-ND-3-YRA | 8         | \$14.45           |
| 3" x 1000' "Caution - Hard Hat Area Keep Out"       | Yellow | TA-ND-3-YHH | 8         | \$14.45           |

**"HYDRANT NOT IN SERVICE" HYDRANT WRAP**

Christy's™ Not in Service Hydrant Wrap is the leading low cost alternative to expensive poly bags. Christy's Not in Service Hydrant Wrap can be installed in a matter of seconds. Wrap up to 300 hundred hydrants per roll. Not intended for permanent use.

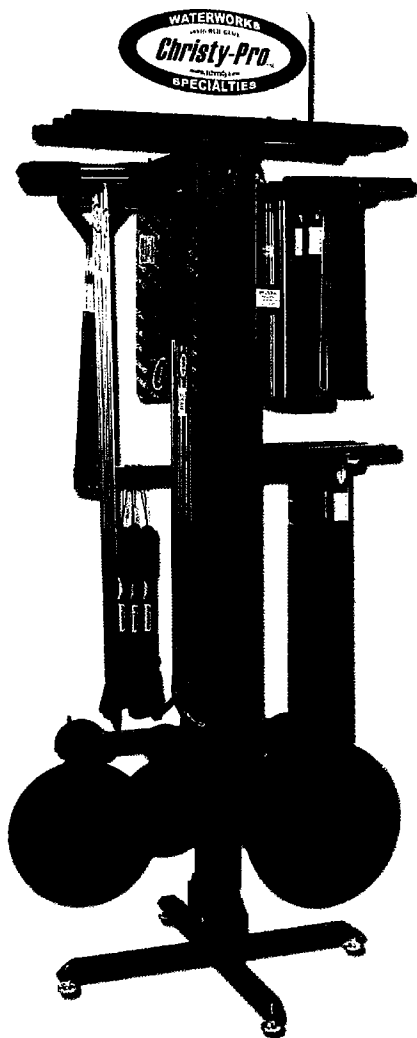
**SPECIFICATIONS:**

All fire hydrants that have yet to be approved or out of service must be wrapped and identified as being "Not in Service". Christy's™ wrap is manufactured of safety orange, 4 mil U.V inhibited polyethylene with bold print showing "NOT IN SERVICE".



| Description         | Part Number  | Case Qty. | List Price(Each) |
|---------------------|--------------|-----------|------------------|
| 24" x 1000' x 4 mil | TA-ND-24-ONS | 1         | \$112.00         |



**CHRISTY'S™ WATERWORKS TOOL RACK**

Christy's™ Waterworks Merchandising Rack is designed to display many of the most common specialty Waterworks tools in an easy service format. Choose from Christy's™ standard configuration or create your own.

Our Waterworks Specialty Tools are manufactured at Christy's™ headquarters in Anaheim, California. These tools are designed by professionals for professionals.

Please call our product specialists to find out more about Christy's™ fabrication capabilities.

**CHRISTY'S™ WATERWORKS TOOL RACK****STANDARD WATERWORKS RACK CONFIGURATION**

See Waterworks Rack Components chart below for items and quantities provided with the standard configuration.

| Description                            | Part Number | List Price (Each) |
|--|-------------|-------------------|
| Standard Waterworks Rack Configuration | TC-WW-RACK  | \$6377.22         |

**WATERWORKS RACK COMPONENTS**

All Christy's™ Waterworks Rack Components are also available individually.

| Description  | Part Number    | Qty. on Std. Rack |
|--|----------------|-------------------|
| Empty Waterworks Rack  | TC-WW-RACK-E   | 1                 |
| 5' Standard Gate Valve Wrench  | WT-GVW-60      | 2                 |
| 6' Standard Gate Valve Wrench  | WT-GVW-72      | 4                 |
| 5' - 10' Extendable Gate Valve Wrench                                    | WT-GVW-0510    | 2                 |
| 6' - 11' Extendable Gate Valve Wrench                                    | WT-GVW-0611    | 4                 |
| Speed Hand Wheel for 2" Valve Op Nut                                     | WT-GVSW        | 2                 |
| 18" Long Curb Stop Wrench for 3/4" & 1" Corporation Valves               | WT-CS18-0100   | 2                 |
| 36" Long Curb Stop Wrench for 3/4" & 1" Corporation Valves               | WT-CS36-0100   | 2                 |
| 18" Long Curb Stop Wrench for 1-1/2" & 2" Corporation Valves             | WT-CS18-0200   | 2                 |
| 36" Long Curb Stop Wrench for 1-1/2" & 2" Corporation Valves             | WT-CS36-0200   | 2                 |
| 24"/42" Two Position Curb Stop Wrench for 3/4" & 1" Corporation Valves   | WT-CS2442-0100 | 1                 |
| 24"/42" Two Position Curb Stop Wrench for 1-1/2" & 2" Corporation Valves | WT-CS2442-0200 | 1                 |
| Economy Water Meter Key  | WT-HDWMK       | 2                 |
| 24" Stainless Steel Meter Box Lid Remover                                | WT-MLR24       | 4                 |
| 36" Stainless Steel Meter Box Lid Remover                                | WT-MLR36       | 4                 |
| Universal Watermeter Wrench  | WT-UWMW400     | 2                 |
| Manhole Hook with 1/2" Shaft   | WT-MHOOK-12    | 2                 |
| Manhole Hood with 5/8" Shaft   | WT-MHOOK-58    | 4                 |
| 4' Stainless Steel Soil Probe  | WT-SP48        | 8                 |
| 6' x 1-1/4" Hex Heavy-duty Digging Bar                                   | WT-XHDB        | 4                 |
| Adjustable Hydrant Lifting Sling   | WT-HLS400      | 2                 |
| Valve Lifting Device for 2" - 12" AWWA C-509 and C-515 Gate Valves       | WT-VL400       | 2                 |
| 4" In-line Test Plate - Class 150  | WT-STP-04      | 2                 |
| 6" In-line Test Plate - Class 150  | WT-STP-06      | 2                 |
| 8" In-line Test Plate - Class 150  | WT-STP-08      | 1                 |
| 10" In-line Test Plate - Class 150                                       | WT-STP-10      | 1                 |
| 12" In-line Test Plate - Class 150                                       | WT-STP-12      | 1                 |

**Become a stocking tool distributor and receive the rack free**



**WATERWORKS TOOLS****UNIVERSAL WATER METER WRENCH**

This Universal Water Meter Wrench has a 7/8" polished 304 stainless steel handle with a UV protected foam grip.

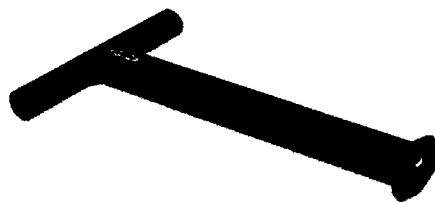
| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Wrench      | WT-UWMW400  | 1         | \$103.42          |

**SPEED HAND WHEEL**

Christy's Speed Hand Wheel for gate valves allows you to quickly operate valves. The handle has a bearing surface

for ease of actuation, and allows you to use both hands to open stubborn valves. Ideal for professionals working with valves in yards, vaults and performing installations. Hard-wearing blue powder coat finish.

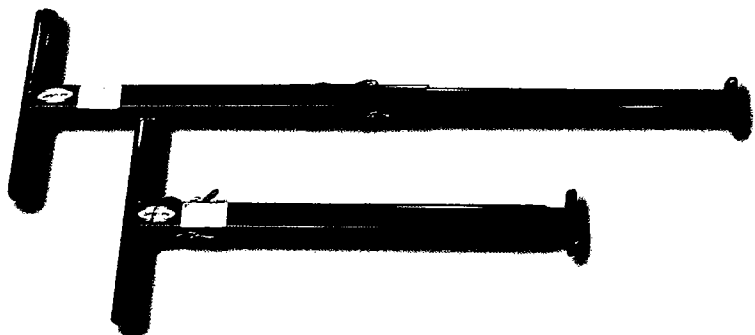
| Description                | Part Number | Case Qty. | List Price (Each) |
|----------------------------|-------------|-----------|-------------------|
| For 2" Valve Operation Nut | WT-GVSW     | 1         | \$70.18           |

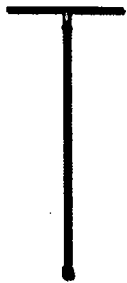
**CURB STOP WRENCHES**

Ideal for reaching deep set valves. Hard-wearing blue powder coat finish.

The Extendable Curb Stop Wrenches are constructed of 1-1/2" heavy wall square tubing which allows no load on the pins. Pins come standard with lanyards to secure the pin while adjusting length.

| Description   | Part Number    | Case Qty. | List Price (Each) |
|---|----------------|-----------|-------------------|
| 18" Long for 3/4" and 1" Corporation Valves         | WT-CS18-0100   | 1         | \$62.18           |
| 36" Long for 3/4" and 1" Corporation Valves         | WT-CS36-0100   | 1         | \$70.18           |
| 18" Long for 1-1/2" and 2" Corporation Valves       | WT-CS18-0200   | 1         | \$62.18           |
| 36" Long for 1-1/2" and 2" Corporation Valves       | WT-CS36-0200   | 1         | \$70.18           |
| 24"/42" Two Position for 3/4" and 1" Corp. Valves   | WT-CS2442-0100 | 1         | \$98.50           |
| 24"/42" Two Position for 1-1/2" and 2" Corp. Valves | WT-CS2442-0200 | 1         | \$98.50           |



**WATERWORKS TOOLS****GATE VALVE WRENCHES**

For 2" AWWA gate valve operation nuts. The shaft is made of 1-1/2" heavy wall square tubing which allows no load on pins for extendable wrenches. Pins come standard with lanyards to secure the pin while adjusting length. The handle is 30" x 1" schedule 40 steel pipe. Hard-wearing blue powdercoat finish.

| Description         | Part Number | Case Qty. | List Price (Each) |
|---------------------|-------------|-----------|-------------------|
| 5' Standard         | WT-GVW-60   | 1         | \$98.50           |
| 6' Standard         | WT-GVW-72   | 1         | \$104.65          |
| 5' - 10' Extendable | WT-GVW-0510 | 1         | \$177.30          |
| 6' - 11' Extendable | WT-GVW-0611 | 1         | \$184.69          |

**CHRISTY'S™ SKIMMER TEST-PLUG WRENCH**

This Skimmer Wrench allows removal of the galvanized plug at the base of the skimmer.



| Description | Part Number       | Case Qty. | List Price (Each) |
|-------------|-------------------|-----------|-------------------|
| Wrench      | WT-SKIMMER WRENCH | 1         | \$53.82           |

**MANHOLE HOOKS**

The handle is perpendicular to the hook to allow better access to the manhole cover. Hard-wearing blue powder coat finish.

| Description             | Part Number   | Case Qty. | List Price (Each) |
|-------------------------|---------------|-----------|-------------------|
| 1/2" Shaft - 27" Length | WT-MHOOK-12   | 1         | \$41.86           |
| 5/8" Shaft - 27" Length | WT-MHOOK-58   | 1         | \$50.49           |
| 5/8" Shaft - 36" Length | WT-MHOOK-5836 | 1         | \$50.63           |

**EXTRA HEAVY-DUTY DIGGING BAR**

Constructed of high quality hardened and tempered plow steel to prevent bending while pushing pipe. Ideal for dispersing tough soils while excavating. Heat treated pick on one end and wedge on the other. Hard-wearing blue powder coat finish.

| Description                    | Part Number   | Case Qty. | List Price (Each) |
|--------------------------------|---------------|-----------|-------------------|
| 6' x 1-1/4" Hex Bar, 26 Lbs.   | WT-XHDB       | 1         | \$155.13          |
| 6' x 1-1/4" Round Bar, 26 Lbs. | WT-XHDB-ROUND | 1         | \$155.13          |

**POST HOLE DIGGING BAR WITH HEX SHANK**

Drop forged high carbon steel, hardened and tempered.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 69" x 1"    | 64-549      | 1         | \$68.89*          |

**DIGGING BAR WITH CHISEL POINT**

Drop forged high carbon steel, hardened and tempered, polished tip. Import.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 6', 17 Lb.  | 64-532      | 1         | \$68.89*          |

**CHRISTY'S™ ECONOMY WATER METER KEY**

Christy's™ Premium Water Meter Key has a heavy-duty design made specifically for hard to turn valves. 3/4" solid driver head and steel shaft. 32" length with 14" steel handle.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Meter Key   | WT-HDWMK    | 1         | \$47.94           |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

**WATERWORKS TOOLS****METER BOX LID REMOVER**

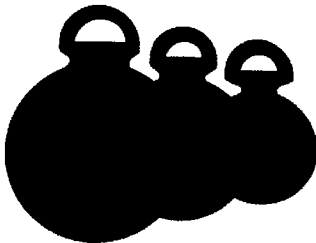
Made of polished 304 stainless steel tubing, this durable lid lifter has a 45° angle at the bottom so there is no stress on the wrist. The hand grip is made of UV protected foam with a wrist string attached.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 24"         | WT-MLR24    | 1         | \$46.78           |
| 36"         | WT-MLR36    | 1         | \$46.78           |

**ADJUSTABLE HYDRANT LIFTING SLING**

Durable nylon sling for installing or removing fire hydrant assemblies on either dry or wet barrel hydrants. Straps will not damage exterior finish on hydrants. Heavy-duty lifting capacity and easily adjustable to fit any fire hydrant.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Sling       | WT-HLS400   | 1         | \$117.58          |

**TEST PLATES - CLASS 150**

The in-line test plate allows you to check the integrity of the pipe and connections without installing a valve. There are two slots at the top of the plate and below the handle for easy installation. Available in clear zinc finish.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 4"          | WT-STP-04   | 1         | \$61.57           |
| 6"          | WT-STP-06   | 1         | \$61.57           |
| 8"          | WT-STP-08   | 1         | \$78.80           |
| 10"         | WT-STP-10   | 1         | \$93.57           |
| 12"         | WT-STP-12   | 1         | \$112.66          |
| 14"         | WT-STP-14   | 1         | \$475.25          |
| 16"         | WT-STP-16   | 1         | \$576.21          |
| 18"         | WT-STP-18   | 1         | \$864.32          |
| 20"         | WT-STP-20   | 1         | \$898.79          |
| 24"         | WT-STP-24   | 1         | \$1,093.33        |

**VALVE LIFTER**

Valve lifter slides under the operating nut and is secure 360°. Capable of lifting up to 12" class 300 valves for AWWA C-509 and C-515 gate valves.



| Description  | Part Number | Case Qty. | List Price (Each) |
|--------------|-------------|-----------|-------------------|
| Valve Lifter | WT-VL400    | 1         | \$105.83          |

**PIPELINE ACCESS CART**

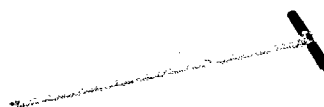
Our Pipeline Access Cart provides access to the inside of pipes safely and easily. Carts can be connected together for transporting tools or equipment. In case of emergency, safety harnesses and ropes can be attached to the cart for extraction. Light weight aluminum construction with durable in-line premium sealed-bearing wheels.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Cart        | WT-PLAC-400 | 1         | \$588.53          |

**STAINLESS STEEL SOIL PROBE**

Polished stainless steel handle with UV protected grips. Shaft is high grade stainless steel and fits through the handle to provide maximum strength. Additional lengths and tips are available upon request.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 4' Probe    | WT-SP48     | 1         | \$92.96           |

**YELLOW FIBERGLASS SOIL PROBE - 48"**

Insulated and non-conductive, this soil probe has a 48" long x 1/2" diameter yellow fiberglass shaft handle and a cast metal tip head.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 48" Probe   | SP48        | 1         | \$56.12           |

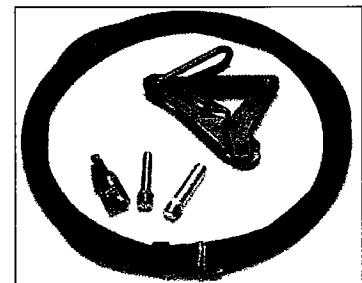
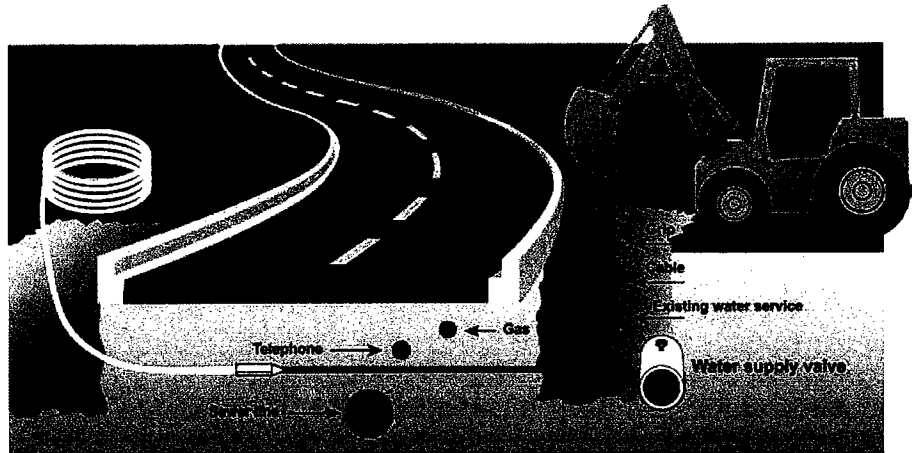
**WATERWORKS TOOLS****CHRISTY'S™ WATERLINE REPLACEMENT KITS**

Reduce material and labor costs by splitting or pulling existing polyethylene or copper water line and re-installing a new line in one operation.

Christy's™ Waterline Replacement Kits utilize a cutter head attached to a heavy-duty pulling cable and Klein cable pulling grip that is pulled through the existing line with a backhoe, winch or truck. Attached to the cutting head is an adapter that pulls the new pipe right through the freshly cut old pipe. Christy's™ offers a wide range of cutter heads with custom adapters for almost any use.

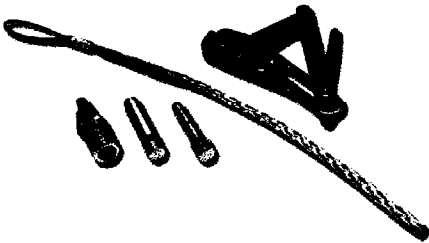
This system will allow you to replace service lines without digging up the entire line, will minimize damage to curbs and sidewalks, and will significantly reduce replacement time.

A 1" cutter head comes standard with your kit, unless noted. The Double Weave Pipe Puller and Pipe Puller Adaptor do not come with the kit and must be ordered separately. See replacement parts below for part numbers.



Waterline Replacement Kit

| Description         | Part Number | Case Qty. | List Price (Each) |
|---------------------|-------------|-----------|-------------------|
| Kit with 50' Cable  | WT-WLK-50   | 1         | \$935.73          |
| Kit with 75' Cable  | WT-WLK-75   | 1         | \$962.82          |
| Kit with 100' Cable | WT-WLK-100  | 1         | \$1007.14         |

**CHRISTY'S™ WATERLINE REPLACEMENT KIT PARTS**

All parts are available individually or with the kit, except for the double weave pipe puller and pipe puller adaptor.

| Description   | Part Number | Case Qty. | List Price (Each) |
|---|-------------|-----------|-------------------|
| Klein Cable Pulling Grip (rated to 8,000 Lbs.)              | WT-KPG      | 1         | \$347.94          |
| Klein Cable Pulling Grip (heavy-duty, rated to 16,000 Lbs.) | WT-KPGHD    | 1         | \$622.99          |
| 50' Heavy-duty Pulling Cable                                | WT-WR50     | 1         | \$236.39          |
| 75' Heavy-duty Pulling Cable                                | WT-WR75     | 1         | \$265.94          |
| 100' Heavy-duty Pulling Cable                               | WT-WR100    | 1         | \$310.27          |
| Cutter Head for 5/8" and 3/4" Services                      | WT-CH75     | 1         | \$376.75          |
| Cutter Head for 3/4" and 1" Services                        | WT-CH100    | 1         | \$376.75          |
| Cutter Head for 1-1/2" Services                             | WT-CH150    | 1         | \$418.62          |
| Cutter Head for 2" Services                                 | WT-CH200    | 1         | \$490.02          |
| 3/4" Copper Tubing Adapter                                  | WT-CTA075   | 1         | \$76.34           |
| 1" Copper Tubing Adapter                                    | WT-CTA100   | 1         | \$76.34           |
| Double Weave Pipe Puller for 3/4" through 1" Pipe           | WT-DWP100   | 1         | \$103.42          |
| Double Weave Pipe Puller for 1-1/4" through 2" Pipe         | WT-DWP200   | 1         | \$231.47          |
| Double Weave Pipe Pulling Adapter                           | WT-DWPA     | 1         | \$103.42          |

**MINI SADDLE TAP XL**

| Description                                | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| T752 Mini Tap XL Tool Kit (complete)       | T752-AK1    | 1         | \$2169.31         |
| Accessories Included:                      |             |           |                   |
| T752 Mini Tap XL                           | T752-A1     | 1         | \$1134.39         |
| 3/4" Male CTS Valve Adapter                | T752-20     | 1         | \$169.31          |
| 1" Male CTS Valve Adapter                  | T752-21     | 1         | \$169.31          |
| For 5/8" & 7/8" Drills & Cutters Extension | T752-10     | 1         | \$148.15          |
| 11/16" Ratchet Wrench                      | T752-70     | 1         | \$192.59          |
| 1-3/4" Wrenches for Valve Adapters         | T752-71     | 1         | \$113.58          |
| 2" Wrenches for Valve Adapters             | T752-72     | 1         | \$128.40          |
| Adjustable Wrench                          | T752-73     | 1         | \$40.71           |
| Tool Box                                   | T752-74     | 1         | \$93.83           |

**VALVE ADAPTERS****Adapter Style - Female CTS - Flared or Compression**

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 3/4" Male   | T752-20     | 1         | \$169.31          |
| 1" Male     | T752-21     | 1         | \$169.31          |
| 1-1/4" Male | T752-22     | 1         | \$179.89          |
| 1-1/2" Male | T752-23     | 1         | \$179.89          |
| 2" Male     | T752-24     | 1         | \$179.89          |

**Adapter Style - M110 - Female Compression**

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 3/4"        | T752-40     | 1         | \$169.31          |
| 1"          | T752-41     | 1         | \$169.31          |
| 1-1/2"      | T752-42     | 1         | \$179.89          |
| 2"          | T752-43     | 1         | \$179.89          |

**Adapter Style - Female NPT/IPS (Tapped)**

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 3/4"        | T752-30     | 1         | \$169.31          |
| 1"          | T752-31     | 1         | \$169.31          |
| 1-1/2"      | T752-33     | 1         | \$179.89          |
| 2"          | T752-34     | 1         | \$179.89          |

**CUTTERS****Carbide Tipped C/ID**

| Description                | Part Number | Case Qty. | List Price (Each) |
|----------------------------|-------------|-----------|-------------------|
| 5/8" Drill                 | T752-50     | 1         | \$190.48          |
| 7/8" Drill                 | T752-51     | 1         | \$215.87          |
| 1-1/8" Drill               | T752-52     | 1         | \$237.04          |
| 1-1/8" Drill               | T752-53     | 1         | \$279.37          |
| 1-3/8" Drill               | T752-54     | 1         | \$306.88          |
| Carbide Tipped Pilot Drill | T752-55     | 1         | \$88.89           |

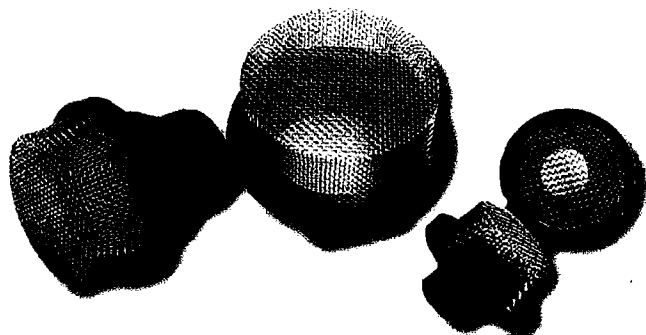
**PVC CUTTERS**

| Description  | Part Number | Case Qty. | List Price (Each) |
|--------------|-------------|-----------|-------------------|
| 5/8" Shell   | T752-60     | 1         | \$194.71          |
| 7/8" Shell   | T752-61     | 1         | \$222.22          |
| 1-1/8" Shell | T752-62     | 1         | \$266.67          |
| 1-3/8" Shell | T752-63     | 1         | \$285.71          |
| 1-3/4" Shell | T752-64     | 1         | \$300.53          |

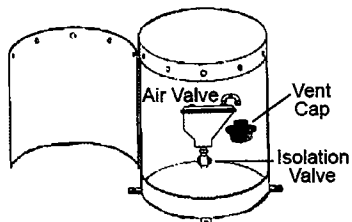
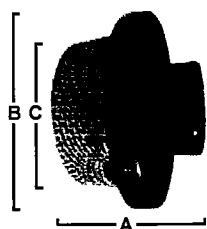
**CUTTER EXTENSIONS**

| Description         | Part Number | Case Qty. | List Price (Each) |
|---------------------|-------------|-----------|-------------------|
| For 5/8" & 7/8"     | T752-10     | 1         | \$148.15          |
| For 1-1/8" & 1-3/4" | T752-15     | 1         | \$179.89          |

Cutter  
Extensions Required For All  
Cutters

**CHRISTY'S™ AIR VALVE ACCESSORIES****CHRISTY'S™ VENT CAPS**

Christy's™ Vent Caps are made of tough UV stabilized glass-filled nylon resin with #10/ #20 mesh screens. They are intended to be attached by pipe nipple to the air release valve outlet to prevent debris or insects from entering the valves. The vent caps are also designed with sufficient surface open space to allow full air flow. They can also be used as inlet screens.



| Description                  | Part Number | Case Qty. | List Price (Each) |
|------------------------------|-------------|-----------|-------------------|
| 3/4" FPT, #10 Stainless Mesh | VC075-10    | 1         | \$23.98           |
| 3/4" FPT, #20 Stainless Mesh | VC075-20    | 1         | \$23.98           |
| 1" FPT, #10 Stainless Mesh   | VC1-10      | 1         | \$23.98           |
| 1" FPT, #20 Stainless Mesh   | VC1-20      | 1         | \$24.84           |
| 2" FPT, #10 Stainless Mesh   | VC2-10      | 1         | \$39.54           |
| 2" FPT, #20 Stainless Mesh   | VC2-20      | 1         | \$39.51           |
| 3" FPT, #10 Stainless Mesh   | VC3-10      | 1         | \$67.48           |
| 1" MPT, #10 Stainless Mesh   | VCM1-10     | 1         | \$23.98           |
| 1" MPT, #20 Stainless Mesh   | VCM1-20     | 1         | \$26.32           |
| 2" MPT, #10 Stainless Mesh   | VCM2-10     | 1         | \$46.65           |
| 2" MPT, #20 Stainless Mesh   | VCM2-20     | 1         | \$49.25           |
| 4" MPT, #10 Stainless Mesh   | VCM4-10     | 1         | ★ NEW! \$144.44   |

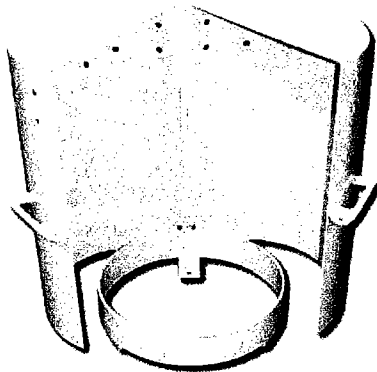
**AIR VALVE SIZING**

| Size     | Screen Area (Sq. In.) | Dimensions (A x B x C)    |
|----------|-----------------------|---------------------------|
| 3/4" FPT | 14-3/4"               | 2-1/8" x 3-3/16" x 2-1/2" |
| 1" FPT   | 14-3/4"               | 2-1/8" x 3-3/16" x 2-1/2" |
| 2" FPT   | 27-1/2"               | 2-5/8" x 4-3/16" x 3-1/2" |
| 3" FPT   | 46"                   | 3-1/2" x 5-3/16" x 4-1/2" |

**CHRISTY'S™ VANDAL RESISTANT VENT CAPS**

Christy's™ Rust Resistant Vent Caps are designed with a #30 mesh screen to prevent debris from entering the vent pipe. Constructed of rust resistant galvanized cast iron.

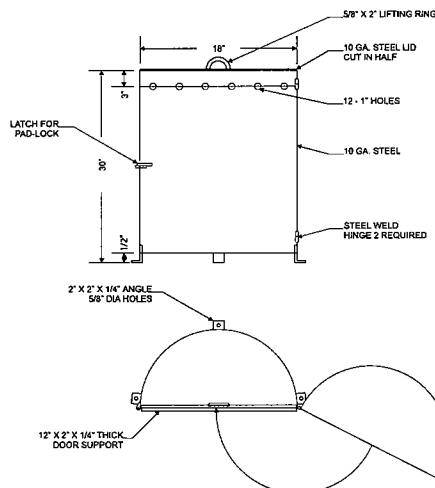
| Description            | Part Number | Case Qty. | List Price (Each) |
|------------------------|-------------|-----------|-------------------|
| 3/4" - (F)NPT #30 Mesh | 4021        | 1         | \$10.30           |
| 1" - (F)NPT #30 Mesh   | 4022        | 1         | \$13.30           |
| 2" - (F)NPT #30 Mesh   | 4025        | 1         | \$27.22           |
| 3" - (F)NPT #30 Mesh   | 4027        | 1         | \$85.44           |
| 4" - (F)NPT #30 Mesh   | 4028        | 1         | \$100.11          |

**CHRISTY'S™ WATERWORKS FABRICATION****CHRISTY'S™ SPEC AIR VALVE CANS**

Christy's™ Spec Air Valve Cans come in three popular sizes and incorporate the best features found in air valve cans for an economical price.

Manufactured of 10 gauge steel with a clamshell door that provides easy access to air valves allowing for easy inspection and maintenance. Three 2" x 2" x 1/4" legs are welded at equal intervals with 5/8" pre-drilled holes for 1/2" anchor bolts. Vent holes at the top and an air gap at the base provide ventilation, reducing heat inside the can, and preventing flooding. The door utilizes strong weld-on hinges with steel pins and is padlock ready.

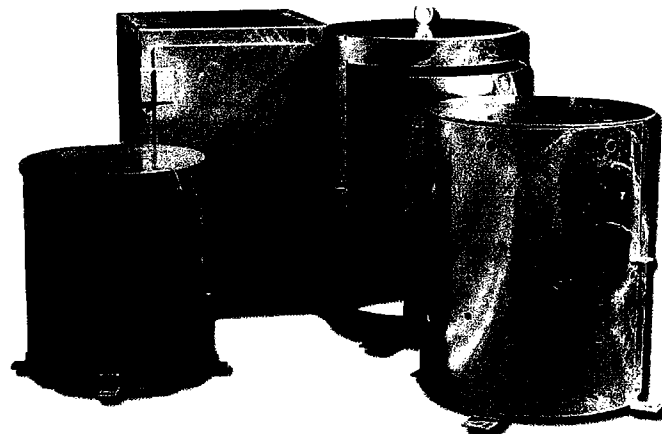
Drawings and specifications are available upon request. Contact Christy's™ for details. Specify Finish When Placing Order.



| Description         | Size<br>(Diameter<br>x Height) | For Air<br>Relief<br>Vacuum<br>Valves | Part<br>Number | List Price<br>(Each) |
|---------------------|--------------------------------|---------------------------------------|----------------|----------------------|
| Powder Coat/ Primer | 18" x 30"                      | 1" & 2"                               | TC-1830-PC     | \$1,458.38           |
| Galvanized          | 18" x 30"                      | 1" & 2"                               | TC-1830-G      | \$1,585.35           |
| Powder Coat/ Primer | 24" x 36"                      | 4" & 6"                               | TC-2436-PC     | \$1,712.35           |
| Galvanized          | 24" x 36"                      | 4" & 6"                               | TC-2436-G      | \$1,871.08           |
| Powder Coat/ Primer | 30" x 48"                      | 8"                                    | TC-3048-PC     | \$1,966.32           |
| Galvanized          | 30" x 48"                      | 8"                                    | TC-3048-G      | \$2,156.79           |

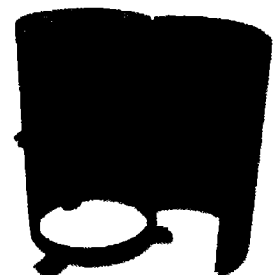
**See Christy's web site for standard specifications  
at [www.tchristy.com](http://www.tchristy.com).**

Drawings are available for Christy's™ Air Valve Can and we'll assist with everything you need to get it in your city's specifications.

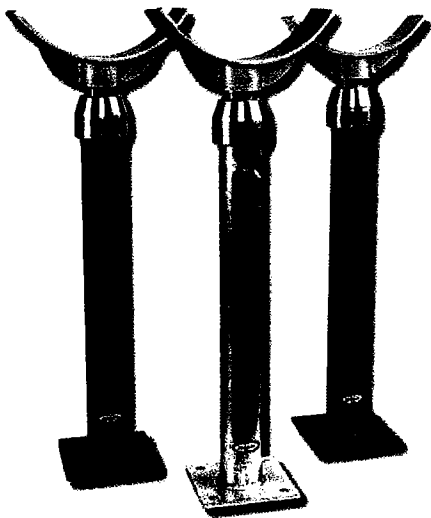
**CUSTOM AIR VALVE CANS**

Christy's™ will custom manufacture air valve cans to your requirements or city specification. We'll provide the valve can with a primer, galvanized, or powder coated finish to meet your specification.

***Send us your specifications and let us quote  
your next fabrication project.***





**CHRISTY'S™ WATERWORKS FABRICATION****HEAVY DUTY PIPE SUPPORTS**

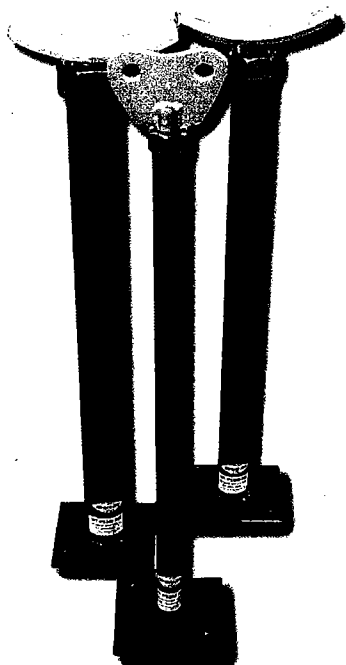
**HEAVY DUTY STAINLESS  
STEEL PIPE SUPPORTS ARE  
ALSO AVAILABLE  
Call Christy's™ for details.**

These heavy-duty pipe supports incorporate a zinc plated saddle, adjusting thread and adjusting collar. The 8" x 8" base plate includes 4 bolt holes for mounting. The standard support height of 30" can be cut to adjust for smaller size requirements.

Each saddle size accommodates ductile iron pipe outer diameters (O.D.). The 30" height can be adjusted an additional 6" with the threaded collar or cut down to 9" providing a short pipe support.

Base plate and riser finishes are available in primer, hard-wearing blue powder coat, or galvanized. Options available upon special request include longer support columns, flange mount supports, U-bolts and straps.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 4" Pipe     | WT-GPS-04   | 1         | \$387.52          |
| 6" Pipe     | WT-GPS-06   | 1         | \$387.52          |
| 8" Pipe     | WT-GPS-08   | 1         | \$412.67          |
| 10" Pipe    | WT-GPS-10   | 1         | \$465.40          |
| 12" Pipe    | WT-GPS-12   | 1         | \$465.40          |
| 14" Pipe    | WT-GPS-14   | 1         | \$480.17          |
| 16" Pipe    | WT-GPS-16   | 1         | \$480.17          |
| 18" Pipe    | WT-GPS-18   | 1         | \$517.11          |
| 20" Pipe    | WT-GPS-20   | 1         | \$517.11          |
| 24" Pipe    | WT-GPS-24   | 1         | \$581.75          |

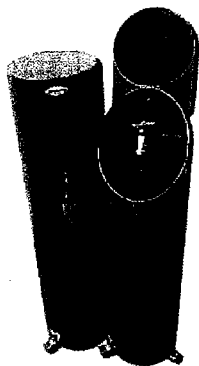
**PIPE SUPPORTS - BLUE POWDER COAT FINISH**

Zinc plated thread and nut for corrosion protection. Standard saddle supports 2" through 24" pipe. 30" height can be adjusted an additional 6" with the threaded collar, and the support tube can be cut down to 9" for a short pipe support.

Flange mount bolts directly to bottom two flange bolt holes. Base material constructed of 6" x 6" x 3/8" plate. Hard-wearing blue powder coat finish.

**Specify pipe size for flange supports when ordering.** Custom supports can also be made to your specification.

| Description                                 | Part Number | Case Qty. | List Price (Each) |
|---|-------------|-----------|-------------------|
| 1" Riser, Flange Mount (2" Pipe)            | WT-PSFM-102 | 1         | \$132.41          |
| 1" Riser, Flange Mount (4" Pipe)            | WT-PSFM-104 | 1         | \$132.41          |
| 1" Riser, Flange Mount (6" Pipe)            | WT-PSFM-106 | 1         | \$132.41          |
| 1" Riser, Flange Mount (8" Pipe)            | WT-PSFM-108 | 1         | \$132.41          |
| 1" Riser, Saddle Mount (2" - 8" Pipe)       | WT-PSSM-100 | 1         | \$76.34           |
| 1-1/2" Riser, Flange Mount (8" Pipe)        | WT-PSFM-208 | 1         | \$195.90          |
| 1-1/2" Riser, Flange Mount (10" Pipe)       | WT-PSFM-210 | 1         | \$195.90          |
| 1-1/2" Riser, Saddle Mount (10" - 16" Pipe) | WT-PSSM-200 | 1         | \$152.67          |
| 2" Riser, Saddle Mount (18" - 24" Pipe)     | WT-PSSM-300 | 1         | \$238.86          |

**CHRISTY'S™ WATERWORKS FABRICATION****WATER SAMPLING STATIONS**

Manufactured from 8-5/8" x 10 gauge steel pipe. This sampling station has a 36" overall height, 180° flip top lid, and alignment latch with a padlock hole and three mounting legs at 120°. A U-bolt is provided to mount the pipe riser and valve.

| Description         | Part Number | Case Qty. | List Price (Each) |
|---------------------|-------------|-----------|-------------------|
| Primer Coated       | WT-WSS-PC   | 1         | Call              |
| Epoxy Powder Coated | WT-WSS-EC   | 1         | Call              |
| Stainless Steel     | WT-WSS-SS   | 1         | Call              |
| Hot-dip Galvanized  | WT-WSS-HDG  | 1         | Call              |



Christy's™ Polyfiber Valve Stem Extension Kit allows you to easily field-fabricate a valve extension from 1' to 10' long for 4-1/2", 6" and 8" valve cans.

**POLYFIBER VALVE STEM EXTENSIONS FROM 1' - 10'**

Our Polyfiber Valve Stem Extension kit is ideal for field fabrication of valve stem extensions. They reduce the need for pre-measurement and the hassle of waiting for fabricated product. Tested at 750 lbs. and weighing 80% less than steel, these valve stem extensions are dimensionally stable and corrosion resistant.

Upper and lower operating nuts are injection molded with an aircraft grade, impact resistant poly compound. The shaft is manufactured of high quality dimensionally reinforced 2" square tube fiberglass with 1/4" wall thickness.

The centering ring fits 8" valve cans, and is made to be easily trimmed to fit 4-1/2" and 6" valve cans. Recommended for extensions up to 10' long and ideal for long-term use in wet or damp environments. Will not rust or corrode.



| Description   | Part Number | Case Qty. | List Price (Each) |
|---|-------------|-----------|-------------------|
| Upper Operating Nut with Adjustable Valve Can Ring (Male) | WT-PFUM-100 | 1         | \$33.86           |
| Lower Operating Nut (Female)                              | WT-PFLF-100 | 1         | \$22.78           |
| 2" Square Fiberglass Tubing - 20' length                  | WT-FGT-200  | 1         | \$320.02          |
| 2" Square Fiberglass Tubing - 10' length                  | WT-FGT-100  | 1         | \$178.27          |
| Adhesive for Extension, 10.2 oz.                          | WT-FAD-102  | 1         | \$12.93           |
| Adhesive for Extension, 3.7 oz.                           | WT-FAD-37   | 1         | \$9.10            |

**STEEL VALVE STEM EXTENSIONS WITH 1-1/2" SQUARE SHAFT**

Permanent valve stem extensions with standard 2" drive nuts and heavy-wall square tubing. Custom extensions made to order such as corp stop, pentagon, hexagon and hand wheel. Available with enamel or galvanized finish. Can also be manufactured with round tubing and solid shaft. **Please specify length and valve can size when ordering.** Additional charges will apply to extensions in excess of 5'.

| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| Enamel      | WT-SVE150-P | 1         | \$125.71          |
| Galvanized  | WT-SVE150-G | 1         | \$189.21          |

*Let us quote your custom extension requirements.*

**LUBRICANTS & PROTECTANTS****ANTI-SEIZE & LUBRICATING COMPOUND**

Designed to lubricate and protect metal. Protects against corrosion, seizure, galling, carbon fusion, and galvanic pitting from 0°F to 2200°F.

Ideal for threaded fittings, sprockets and chains, splines and worm gears, manifold studs and bolts, brake cams and pins, rig drives, casting equipment, winches, conveyors, valve shafts, food processing equipment. Not to be used with oxygen systems.

| Description                     | Part Number | Case Qty. | List Price (Each) |
|---------------------------------|-------------|-----------|-------------------|
| 8 oz. Brush-top Plastic Bottle  | S62008      | 12        | \$19.62           |
| 16 oz. Brush-top Plastic Bottle | S62016      | 12        | \$32.82           |
| 16 oz. Aerosol Spray            | S00620      | 12        | \$14.91           |

**ZINC RICH COLD GALVANIZING COMPOUND**

A high performance primer that stops rust by electro-chemical action on steel or galvanized coatings. This compound fuses zinc to the metal substrate and delivers protection against corrosion equal to or better than hot dipped galvanize.

Perfect for industrial tanks, piping, welded joints, farm equipment, fences, gutters and galvanized surfaces.

| Description  | Part Number | Case Qty. | List Price (Each) |
|--------------|-------------|-----------|-------------------|
| 16 oz. Spray | S00740      | 12        | \$10.77           |

**WASP & HORNET SPRAY**

Contains a high amount of petroleum distillates for the best knockdown and kill rate. Kills wasps, hornets, yellow jackets, flies, mosquitoes and flying moths. 20 oz. can.



| Description         | Part Number | Case Qty. | List Price (Each) |
|---------------------|-------------|-----------|-------------------|
| Wasp & Hornet Spray | S02085700   | 12        | \$11.32           |

**RUST INHIBITOR**

A waxy, heavy-duty, rust inhibitor formulated to stand up to the most severe weather conditions, offering 24-month durability. Provides over 1,200 hours of protection against salt spray and a barrier that guards against humidity. Works on all metals, rubber, most plastic and painted surfaces. NSF reg. 127500; H2 rated.

Use for storage tanks and containers, castings, industrial parts and machines, molds, cables, generators, marine engines and parts, electrical equipment and threads.

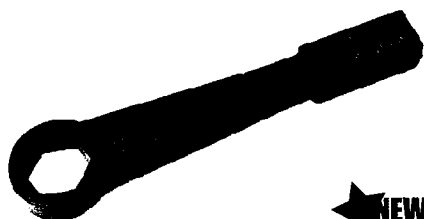
| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 11 oz. Lube | S00777      | 12        | \$12.24           |

**WD 40®**

WD-40® is the #1 multi-purpose product in the U.S. The five basic functions of WD-40® are cleaning, lubricating, penetrating stuck metal parts, displacing moisture and protecting against rust and corrosion. Ideal for all counter sales areas!

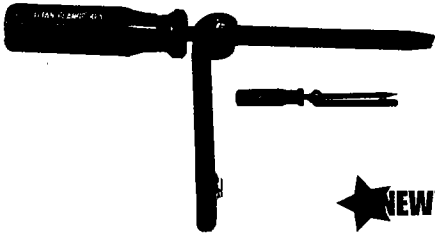
| Description | Part Number | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-------------------|
| 2 oz.       | WD-2        | 12        | \$5.40*           |
| 8 oz.       | WD-8        | 12        | \$5.78*           |
| 11 oz.      | WD-11       | 12        | \$7.58*           |
| 16 oz.      | WD-16       | 12        | \$10.14*          |

\* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

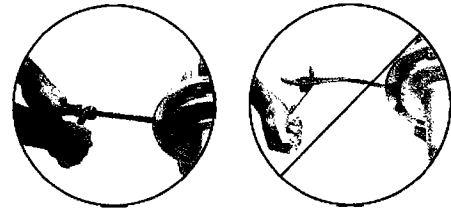
**STRIKING WRENCHES****STRIKING WRENCH (6-PT STRAIGHT)**

Striking Wrenches feature greater handle strength clearance in overall head diameter necessary for working with flange connections. The large smooth striking surface reduces blows and lessens the chance of a rope slipping from the handle when maintaining tension on the wrench. All Striking Wrenches are forged from alloy steel and are heat-treated to guarantee hardness for strength and maximum tool life.

| Description | Part Number | Stud Size | Nut Size | Head Diameter | Weight | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|----------|---------------|--------|-----------|-------------------|
| 5/8"        | SW01        | 5/8"      | 1-1/16"  | 1-11/16"      | 1.70   | 1         | \$74.61           |
| 3/4"        | SW02        | 3/4"      | 1-1/4"   | 1-15/16"      | 2.00   | 1         | \$77.86           |
| 7/8"        | SW03        | 7/8"      | 1-7/16"  | 2-1/4"        | 3.25   | 1         | \$97.14           |
| 1"          | SW04        | 1"        | 1-5/8"   | 2-1/2"        | 4.50   | 1         | \$112.76          |
| 1-1/8"      | SW05        | 1-1/8"    | 1-13/16" | 2-11/16"      | 4.75   | 1         | \$116.67          |
| 1-1/4"      | SW06        | 1-1/4"    | 2"       | 2-15/16"      | 5.58   | 1         | \$120.05          |
| 1-3/8"      | SW07        | 1-3/8"    | 2-3/16"  | 3-3/16"       | 6.78   | 1         | \$154.95          |
| 1-1/2"      | SW08        | 1-1/2"    | 2-3/8"   | 3-7/16"       | 7.58   | 1         | \$175.78          |
| 1-5/8"      | SW09        | 1-5/8"    | 2-9/16"  | 3-11/16"      | 8.50   | 1         | \$193.36          |
| 1-3/4"      | SW10        | 1-3/4"    | 2-3/4"   | 3-7/8"        | 8.75   | 1         | \$261.72          |
| 1-7/8"      | SW11        | 1-7/8"    | 2-15/16" | 4-1/4"        | 9.78   | 1         | \$270.83          |
| 2"          | SW12        | 2"        | 3-1/8"   | 4-3/8"        | 10.25  | 1         | \$315.76          |
| 2-1/4"      | SW13        | 2-1/4"    | 3-1/2"   | 4-7/8"        | 11.38  | 1         | \$451.27          |
| 2-1/2"      | SW14        | 2-1/2"    | 3-7/8"   | 5-1/4"        | 13.25  | 1         | \$632.81          |

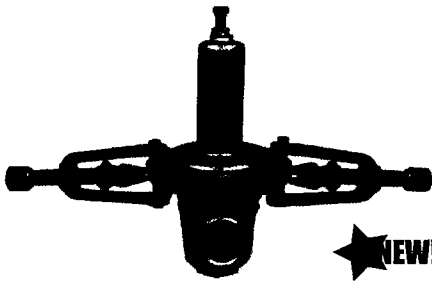
**SPECIALTY TOOLS****TITAN FLANGE KEY**★ **NEW!**

Use this Flange Key to separate flanges instead of risking an injury because of the improper use of hand tools. The blade is made of heat-treated 5160 steel with the point sharpened to 3/32 of an inch. This, coupled with a hard plastic handle, allows the point of the blade to be easily driven between two flanges. The handle lever will not ex-

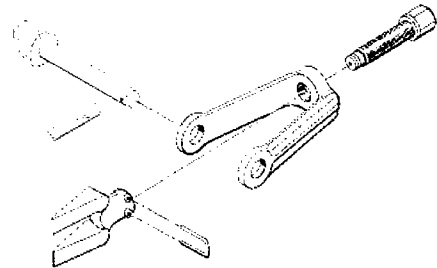


ceed 90° when opened, and a magnet holds it in place when closed to prevent the tool from opening while in a pocket or tool box.

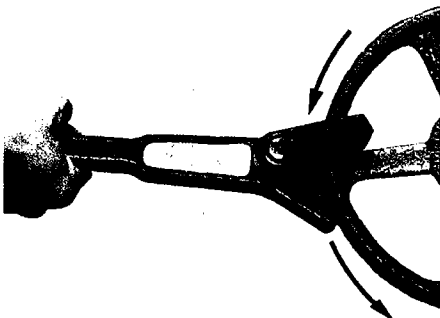
| Description | Part Number | Weight    | Case Qty. | List Price (Each) |
|-------------|-------------|-----------|-----------|-------------------|
| 11"         | FK100       | 1.25 Lbs. | 1         | \$178.56          |

**TITAN FLANGE SPREADER**★ **NEW!**

Titan Flange Spreaders have been carefully designed for safety in separating pipe and ring joint flanges in refineries, pipelines and various industrial facilities.



| Description   | Part Number | Pin Diameter | Weight | Case Qty. | List Price (Each) |
|---------------|-------------|--------------|--------|-----------|-------------------|
| 2-3/4" Spread | N14         | 5/8"         | 8      | 1         | \$607.99          |
| 3-3/4" Spread | N48         | 3/4"         | 9      | 1         | \$628.65          |
| 4-7/8" Spread | N812        | 7/8"         | 10     | 1         | \$667.01          |
| 6-1/8" Spread | N1216       | 1"           | 15     | 1         | \$793.92          |
| 7-1/2" Spread | N1620       | 1-1/8"       | 18     | 1         | \$994.62          |
| 9-1/8" Spread | N2024       | 1-1/4"       | 20     | 1         | \$1056.60         |

**TITAN VALVE WHEEL LATCH WRENCH**

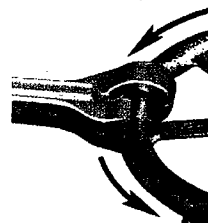
This Valve Wheel Latch wrench actually grips the rim of the wheel to prevent the wrench from slipping when opening and closing valves. The patented latching mechanism pivots freely around a bushing and rivet allowing the wrench to be placed on and taken off the valve wheel with ease. The titan valve wheel latch wrench is made from alloy steel for strength and durability.

★ **NEW!**

| Description     | Part Number | Length  | Weight     | Case Qty. | List Price (Each) |
|-----------------|-------------|---------|------------|-----------|-------------------|
| 1-3/16" Opening | VWL1        | 11-1/4" | 3-1/2 Lbs. | 1         | \$292.19          |

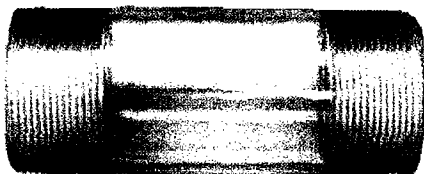
**SPECIALTY TOOLS****TITAN VALVE WHEEL WRENCH**★ **NEW!**

This valve wheel wrench significantly reduces the chance of injury due to wrench slippage when opening and closing valves. These durable, ductile iron wrenches are safer and easier to use because the head design provides a better grip and allows the operator to rest the wrench on top of the wheel



when opening stubborn valves. This along with longer handle lengths for more leverage, make the Double-end Surgrip the best valve wheel wrench on the market.

| Description | Part Number | Weight     | Case Qty. | List Price (Each) |
|-------------|-------------|------------|-----------|-------------------|
| 8"          | VW0SG       | 14 ozs.    | 1         | \$61.83           |
| 15"         | VW0LSG      | 1-3/8 lbs. | 1         | \$81.46           |
| 10"         | VW10SG      | 1-1/2 lbs. | 1         | \$68.47           |
| 22"         | VW12SG      | 4-5/8 lbs. | 1         | \$107.43          |
| 22"         | VW1SG       | 4 lbs.     | 1         | \$149.78          |
| 27"         | VW2SG       | 5-5/8 lbs. | 1         | \$157.16          |
| 27"         | VW3SG       | 12 lbs     | 1         | \$264.89          |

**PETOL SIGHT GLASS**

This sight glass allows the pumper and water hauler to see what is flowing through the storage tank drain lines at all times. The clear view nipple is made from a tough, shatter resistant polycarbonate. This type of plastic has more than 30 times the impact resistance

of safety glass, withstands prolonged exposure to ultra-violet rays and can be used in temperatures ranging from -150° to 165°F.

**WARNING:**

- Use on drain lines only

★ **NEW!**

| Description | Part Number | Connection       | Weight | Rating   | Case Qty. | List Price (Each) |
|-------------|-------------|------------------|--------|----------|-----------|-------------------|
| 2" x 8"     | SG0500      | THREADED         | 1      | 500 PSI  | 1         | \$111.33          |
| 2" x 8"     | SG0500V     | VICTAULIC GROOVE | 1      | 500 PSI  | 1         | \$109.11          |
| 2" x 8"     | SG1000*     | THREADED         | 1.2    | 1000 PSI | 1         | \$114.84          |
| 2" x 8"     | SG1000V*    | VICTAULIC GROOVE | 1.2    | 1000 PSI | 1         | \$114.84          |
| 3" x 8"     | SG0500-3    | THREADED         | 1.2    | 500 PSI  | 1         | \$147.14          |
| 3" x 8"     | SG500V-3    | VICTAULIC GROOVE | 1.3    | 500 PSI  | 1         | \$143.88          |
| 4" x 8"     | SG0500-4    | THREADED         | 1.3    | 500 PSI  | 1         | \$199.87          |
| 4" x 8"     | SG0500V-4   | VICTAULIC GROOVE | 1.3    | 500 PSI  | 1         | \$190.10          |

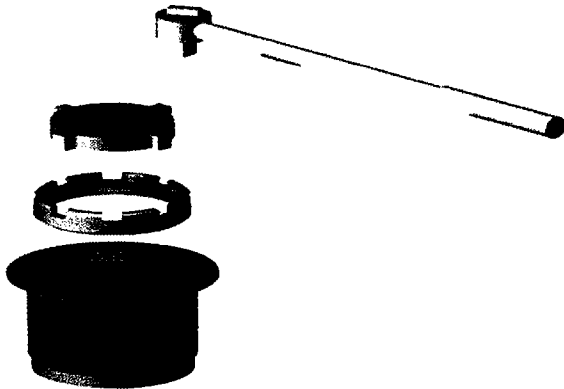
\* Special lengths available upon request.

**SPECIALTY TOOLS****EMERGENCY GAS SHUT-OFF WRENCH**

1/2" slotted head fits most home gas meter valves.

**★NEW!**

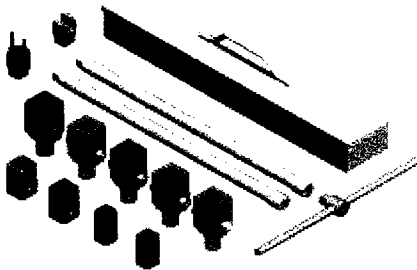
| Description         | Part Number | Case Qty. | List Price (Each) |
|---------------------|-------------|-----------|-------------------|
| Gas Shut-off Wrench | 7000-EW     | 1         | \$18.80           |

**FLOOR DRAIN WRENCH**

This simple tool is a must when the floor drain inner ring is jammed tight! This sturdy tool is made from 3/8" steel plate. Just drop the drain wrench into place and insert a 3/8" square ratchet wrench (you'll probably need an extension) and twist that drain ring out in seconds.

**★NEW!**

| Description        | Part Number | Case Qty. | List Price (Each) |
|--------------------|-------------|-----------|-------------------|
| Floor Drain Wrench | 7000-DW     | 1         | \$25.64           |

**VALVE OPERATOR KEY SET**

Open and close utility valves with this multi-function kit. All keys smaller than 2" nest inside the 2" key and bolt in for extra strength.

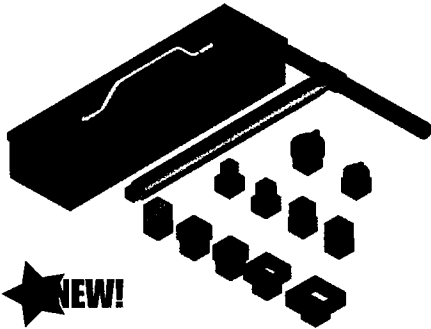
**★NEW!**

| Description        | Part Number | Case Qty. | List Price (Each) |
|--------------------|-------------|-----------|-------------------|
| Multi-function Kit | 1600-VO     | 1         | \$511.11          |

**Kit includes:**

- Sliding T-Handle with two 28" extensions, 2" Square Head, 1-3/4" Square Head, 1-1/2" Square Head, 1-1/4" Square Head.
- 1" Square Head, 7/8" Slotted Key.
- 2 Prong Head for small valve handles.
- 29" x 6" x 3" latching metal box with handle.



**SPECIALTY TOOLS****CLEAN-OUT PLUG WRENCHES****0701-CPX Clean-out Plug Wrench Set.**

A wrench for every size and style of clean out plug: 5 raised head, 4 countersunk, and 2 slotted. Comes with or without 17" sliding T-Handle.

**CLEAN-OUT PLUG WRENCHES - SET**

| Description   | Part Number | Case Qty. | List Price (Each) |
|---|-------------|-----------|-------------------|
| Clean-out Plug Wrench Set (11 pieces) with box and 16" T-handle | 1701-CPX    | 1         | \$441.03          |

**RAISED HEAD WRENCHES - INDIVIDUAL PIECES**

| Description                                     | Part Number | Case Qty. | List Price (Each) |
|---|-------------|-----------|-------------------|
| 1-1/2" Raised Head Wrench: 7/8" I.D.            | 0701RH1     | 1         | \$34.19           |
| 2" Raised Head Heavy Wall Wrench: 1-1/8" I.D.   | 0701RH2     | 1         | \$34.19           |
| 2" Raised Head Regular Wall Wrench: 1-1/4" I.D. | 0701RH3     | 1         | \$34.19           |
| 3" Raised Head Regular Wall Wrench: 1-3/4" I.D. | 0701RH4     | 1         | \$34.19           |
| 4" Raised Head Regular Wall Wrench: 2-1/8" I.D. | 0701RH5     | 1         | \$34.19           |

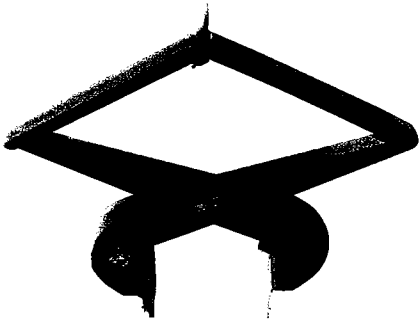
**COUNTER SUNK WRENCHES - INDIVIDUAL PIECES**

| Description                              | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| 1-1/2" Countersunk: 3/4" Square, Regular | 0701CS6     | 1         | \$34.19           |
| 2" Countersunk: 7/8" Square, Regular     | 0701CS7     | 1         | \$34.19           |
| 3" Countersunk: 1-1/8" Square, Regular   | 0701CS8     | 1         | \$34.19           |
| 4" Countersunk: 1-1/4" Square, Regular   | 0701CS9     | 1         | \$34.19           |

**SLOTTED WRENCHES - INDIVIDUAL PIECES**

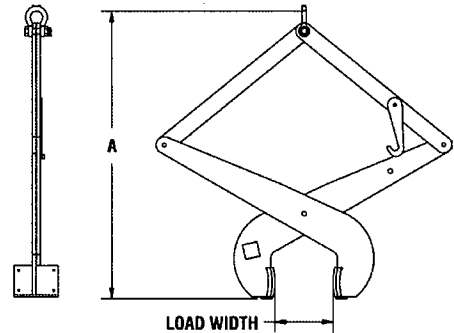
| Description                        | Part Number | Case Qty. | List Price (Each) |
|------------------------------------|-------------|-----------|-------------------|
| 2" Slotted: 1/4" X 1", Regular     | 0701SW10    | 1         | \$37.61           |
| 4" Slotted: 1/4" X 1-3/4", Regular | 0701SW11    | 1         | \$37.61           |
| 6" Slotted: 1/4" X 2-1/2", Regular | 0701SW12    | 1         | \$61.54           |

**0701RH1 Raised Head Wrench.****0701RH2 Raised Head Wrench.****0701RH3 Raised Head Wrench.****0701RH4 Raised Head Wrench.****0701RH5 Raised Head Wrench.****0701CS6 Counter Sunk Wrench.****0701CS7 Counter Sunk Wrench.****0701CS8 Counter Sunk Wrench.****0701CS9 Counter Sunk Wrench.****0701SW10 Slotted Wrench.****0701SW11 Slotted Wrench.****0701SW12 Slotted Wrench.**

**LIFTING TOOLS****SLAB TONGS**

These Slab Tongs are designed for lifting heavy slabs of concrete, stone, plate glass or highly polished metal sheets that must be protected from scratching or marring. They can be used in construction work to position slabs.

The curved pads give proper contact for gripping smooth surfaces and handling a large range of sizes. Semi-automatic latch is standard and serves as an aid in positioning the tongs for picking-up the load. Designed and manufactured to ASME B30.20.



| Description                    | Part Number | Weight | Rated Cap. (lbs.) | Load Width (in.) | Dim. A (in.) | Weight (lbs.) | Case Qty. | List Price (Each) |
|--------------------------------|-------------|--------|-------------------|------------------|--------------|---------------|-----------|-------------------|
| 1,000 Lb. Capacity, 6" to 10"  | 71-1        | 75     | 1,000             | 6 to 10          | 39           | 75            | 1         | \$1,064.33        |
| 1,500 Lb. Capacity, 8" to 12"  | 71-2        | 85     | 1,500             | 8 to 12          | 39           | 85            | 1         | \$1,087.72        |
| 1,500 Lb. Capacity, 10" to 14" | 71-3        | 145    | 1,500             | 10 to 14         | 40           | 145           | 1         | \$1,321.64        |
| 1,500 Lb. Capacity, 14" to 18" | 71-4        | 145    | 1,500             | 14 to 18         | 44           | 145           | 1         | \$1,859.11        |
| 1,500 Lb. Capacity, 18" to 22" | 71-5        | 150    | 1,500             | 18 to 22         | 45           | 150           | 1         | \$2,191.63        |

**TRIANGLE/CHOKER PIPE LIFTING SLINGS**

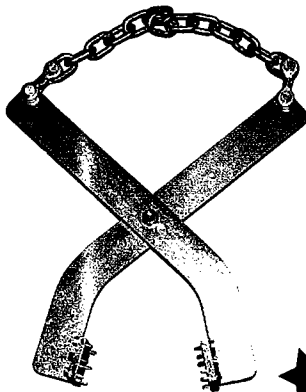
Double ply slings with steel fittings. Resin treated for sure grip and resistance to wear. For added stability use in pairs in conjunction with spreader beam.



| Description         | Part Number | Weight (lbs.) | Case Qty. | List Price (Each) |
|---------------------|-------------|---------------|-----------|-------------------|
| Up to 6" Pipe O.D.  | D4TC-Q-36   | 9             | 1         | \$339.18          |
| Up to 12" Pipe O.D. | D4TC-Q-56   | 11            | 1         | \$374.27          |
| Up to 18" Pipe O.D. | D4TC-Q-7    | 19            | 1         | \$591.81          |
| Up to 20" Pipe O.D. | D4TC-Q-76   | 20            | 1         | \$715.25          |
| Up to 24" Pipe O.D. | D4TC-Q-86   | 21            | 1         | \$755.74          |

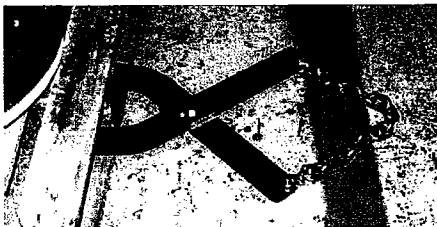
**SPECIFICATIONS**

| Part Number | Rated Capacity (lbs) |        | Max. Pipe Dia. (in.) | Sling       |        | Approx. Weight |
|-------------|----------------------|--------|----------------------|-------------|--------|----------------|
|             | Choker               | Basket |                      | Width (in.) | Length |                |
| D4TC-Q-36   | 8,800                | 22,000 | 6                    | 4           | 3'-6"  | 9              |
| D4TC-Q-56   | 8,800                | 22,000 | 12                   | 4           | 5'-6"  | 11             |
| D4TC-Q-7    | 13,200               | 33,000 | 18                   | 6           | 7'     | 19             |
| D4TC-Q-76   | 13,200               | 33,000 | 20                   | 6           | 7'-6"  | 20             |
| D4TC-Q-86   | 13,200               | 33,000 | 24                   | 6           | 8'-6"  | 21             |

**LIFTING TOOLS****PALLET PULLER**★ **NEW!**

For use when a lift truck cannot enter a trailer or when unloading a truck from ground level. Single scissor action extends fork truck reach and will hold up to 1,250 Lbs. average safe load and 5,000 Lbs. maximum capacity. 4" jaw opening. **Not for overhead lifting.**

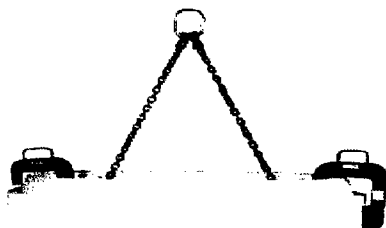
| Description | Part Number | Weight (lbs.) | Case Qty. | List Price (Each) |
|-------------|-------------|---------------|-----------|-------------------|
| 15" Chain   | MPP-1       | 11            | 1         | \$292.40          |
| 10' Chain   | MPP-10      | 21            | 1         | \$339.18          |
| 20' Chain   | MPP-20      | 31            | 1         | \$385.96          |
| 30' Chain   | MPP-30      | 41            | 1         | \$409.36          |
| 40' Chain   | MPP-40      | 51            | 1         | \$432.75          |



Perfect job-site companion where a truck dock isn't available. Just hook and pull.

**SPECIFICATIONS**

| Part No. | Jaw Opening | Chain Length | Weight (lbs.) |
|----------|-------------|--------------|---------------|
| MPP-1    | 4"          | 15"          | 11            |
| MPP-10   | 4"          | 10'          | 21            |
| MPP-20   | 4"          | 20'          | 31            |
| MPP-30   | 4"          | 30'          | 41            |
| MPP-40   | 4"          | 40'          | 51            |

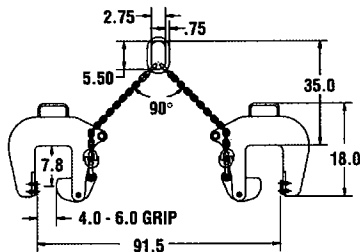
**CONCRETE HOUSING LIFTER**

These Concrete Housing Lifters are available in two or three leg models and handle 4" - 6" concrete wall thickness. They will not damage the concrete seat and the legs can be quickly positioned to balance the load. Constant tension is required to maintain a positive load contact. Reverse cam action eliminates slippage tendency. Conforms to ASME B30.9 & B30.20.

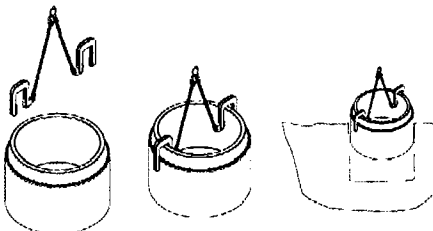
Special order only. No prepaid freight allowed.

★ **NEW!**

| Description                             | Part Number | Weight (lbs) | Case Qty. | List Price (Each) |
|---|-------------|--------------|-----------|-------------------|
| Two Leg Lifter: 2 42" legs              | MHL-5       | 95           | 1         | \$2,511.56        |
| Three Leg Lifter: 2 42" legs, 1 72" leg | MHL-712-72  | 145          | 1         | \$4,368.15        |
| Clamp Only                              | MHL-C       | 36           | 1         | \$987.49          |

**SPECIFICATIONS**

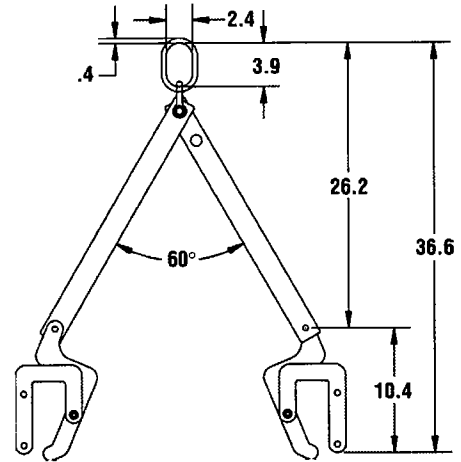
| Part No.   | Description                              | Capacity (lbs.) | Weight (lbs.) |
|------------|--|-----------------|---------------|
| MHL-5      | 2-Leg Model - Two 42" Legs               | 10,000          | 95            |
| MHL-712-72 | 3-Leg Model - Two 42" Legs - One 72" Leg | 15,000          | 145           |
| MHL-C      | Clamp Only                               | 5,000           | 36            |



**LIFTING TOOLS****MANHOLE SLEEVE LIFTER**

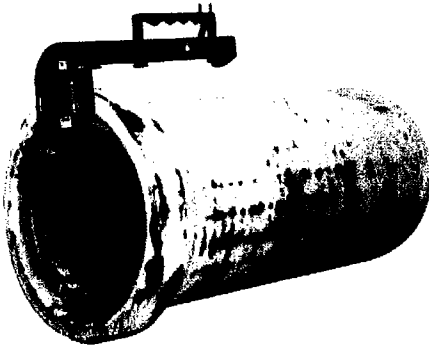
The Manhole Sleeve Lifter provides a quick and efficient way to place cast manhole sleeves. Easily attaches to and releases from the load.

**Special order only. No prepaid freight allowed.**

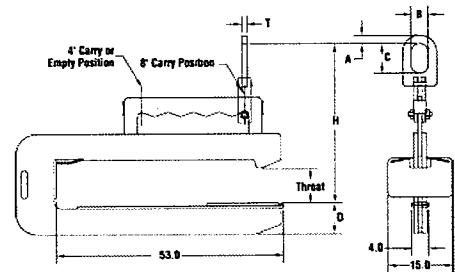


**★NEW!**

| Description  | Part Number | Capacity (lbs.) | Weight (lbs.) | Case Qty. | List Price (Each) |
|--|-------------|-----------------|---------------|-----------|-------------------|
| Two Leg Lifter   | MCL-12      | 1,000           | 30            | 1         | \$760.77          |
| Three Leg Manhole Lifter: 2 18" Legs, 1 30" Leg with Shortener | MCL-34      | 1,500           | 25            | 1         | \$1,456.05        |
| Clamps Only  | MCL-C       | 500             | 6             | 1         | \$224.20          |

**C-HOOK PIPE LIFTER**

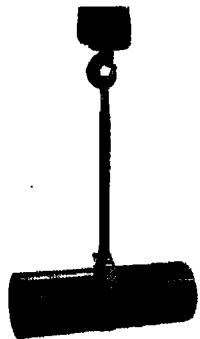
These C-Hook Pipe Lifters handle pre-cast concrete pipe in both 4' & 8' long sections. Dual lift points allow hook to be carried safely loaded or unloaded. Non-skid urethane saddle prevents pipe from slipping off lifter. Quick, efficient way to pick and place. Conforms to ASME B30.20.



**Special order only. No prepaid freight allowed.**

**★NEW!**

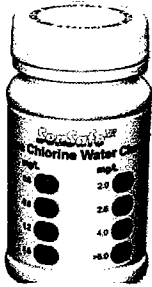
| Description        | Part Number | Weight (lbs.) | Case Qty. | List Price (Each) |
|--------------------|-------------|---------------|-----------|-------------------|
| 10 - 27" Dia. Pipe | CPL         | 250           | 1         | \$3,791.27        |
| 20 - 42" Dia. Pipe | CPL-3       | 500           | 1         | \$5,111.29        |

**QUICK-CHOKE™ PIPE LIFTING SLING**

Rigging is quick and easy by wrapping sling around pipe and hooking it on itself. Allows pipe to be handled quickly and efficiently while properly balanced. May be used in pairs for added stability.

**★NEW!**

| Description        | Part Number | Rated Capacity (lbs.) | Web Sling |        | Case Qty. | List Price (Each) |
|--------------------|-------------|-----------------------|-----------|--------|-----------|-------------------|
|                    |             |                       | Width     | Length |           |                   |
| 10' x 2", 4,000 Lb | QC-2        | 4,000                 | 2         | 10     | 1         | \$224.02          |
| 12' x 3", 7,000 Lb | QC-3        | 7,000                 | 3         | 12     | 1         | \$375.17          |
| 14' x 4", 9,000 Lb | QC-4        | 9,000                 | 4         | 14     | 1         | \$583.00          |

**WATER TEST PRODUCTS****FREE CHLORINE WATER CHECK**

Used as an alternative to DPD, SenSafe™ Free Chlorine Water Check™ strips avoid the types of errors inherent to currently available test methods. SenSafe™ Free Chlorine Water Check™ requires no powders, tablets, liquids, instruments, technical training, or MSDS. All of these factors make SenSafe™ Free Chlorine Water Check™ the safe, accurate, easy, and affordable testing solution.

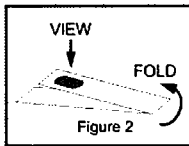
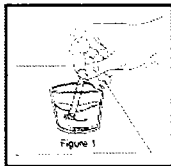
481026 Free Chlorine Water Check.



| Description                                  | Detection Levels   | Test Methodology  | Test Time  | Part Number | Case Qty. | List Price (Each) |
|--|--|-------------------|------------|-------------|-----------|-------------------|
| Chlorine Water Check - Free, Bottle of 50    | 0, 0.05, 0.1, 0.2 0.4, 0.6, 0.8, 1.2, 1.5, 2.0, 2.6, 4.0, >6.0mg/L | Colorimetric, TMB | 40 Seconds | 481026      | 12        | \$33.33           |
| Chlorine Check Ultra High-Free, Bottle of 50 | 0, 25, 50, 100, 200, 300, 400, 500, 750 ppm                        | Colorimetric, TMB | 40 Seconds | 480024      | 12        | \$29.17           |

**FIRST EPA PROPOSED STRIP for Free Chlorine Screening**

EPA's test strip proposal will be made in an upcoming rulemaking that will be published in the Federal Register. Prior to permitted use for compliance monitoring purposes, users can become familiar with the test method on a screening basis.



US PATENT 5491094 &amp; 6541269

**SenSafe™ Free Chlorine Water Check™**

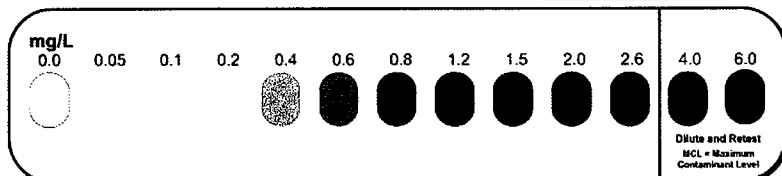
sample color chart

**Test Procedure:**

Dip one (1) test strip into a 50 ml (about 2 oz.) sample for **twenty (20)\*seconds** with constant, gentle back-and-forth motion that maximizes the liquid flow through the indicator pad (aperture). Remove and shake strip once briskly to remove excess sample. **Wait twenty (20) seconds** and match with the best color to determine Parts per Million (PPM) or mg/Liter concentration of Free Chlorine. Complete the color matching **within one (1) minute**.

**NOTE:** For best results the back-and-forth motion should be with 1" to 2" (2.5 to 5.0 cm) strokes and about 40 strokes during the 20 seconds (1 back and 1 forth stroke per second). Also, view color through aperture against a white surface. A suggestion is to fold the white plastic handle of the test strip under the aperture so that it produces a consistent viewing background (blocks all distractions from behind) (See FIGURE 2).

\*NOTE: Color chart prepared with standards at 24°C. For precise results, dip time should be adjusted to correct for water temperature effect. Call ITS to receive temperature adjustment chart.



The SenSafe™ Free Chlorine Water Check test has no maximum limit reference below 4.0 ppm waterborne chlorine concentration. A 10 ppm concentration color calibration will typically cause a false reading of 2 ppm.

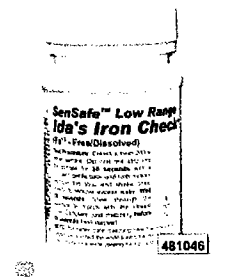
**WATER TEST PRODUCTS****WATER HARDNESS**

480008 Water Hardness.

Calcium and Magnesium are naturally occurring minerals responsible for water hardness. Hardness is a key water chemistry parameter and its control is important to help assure proper water quality. Low levels of calcium and magnesium (soft water) can contribute to problems of corrosive water. High calcium and magnesium levels, especially above 400 ppm, can lead to possible water clarity problems and scaling. Hardness levels can be determined by using a simple dip and read strip. Levels are standardized as Calcium.



| Description  | Part Number | Case Qty. | List Price (Each) |
|--|-------------|-----------|-------------------|
| 0, 40, 80, 120, 180, 250, 425, 1000 AND: 0, 2, 5, 7, 11, 15, 25, 58 grains /gallon | 480008      | 12        | \$18.75           |

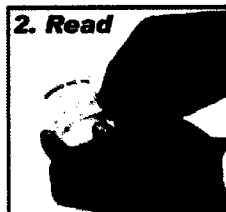
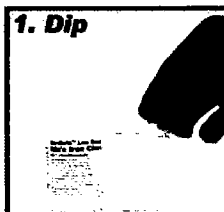
**IRON CHECK STRIPS**

481046 Iron Check Strips.

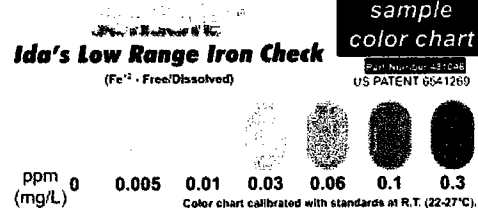
The presence of dissolved iron in water can have negative consequences. It can lead to stained clothes, corrosion of pipes and fixtures, and a foul taste in drinking water. By using ITS' patented aperture, SenSafe™ Iron Check allows detection down to 0.005 ppm. SenSafe™ Iron Check strips are ideal for use at process control points and in the field.



| Description                         | Detection Levels   | Test Methodology | Test Time  | Part Number | Case Qty. | List Price (Each) |
|-------------------------------------|--------------------|------------------|------------|-------------|-----------|-------------------|
| Iron (IDA'S), (Fe+2),, Bottle of 25 | 0 - 0.3 ppm (mg/l) | Colorimetric     | 60 Seconds | 481046      | 12        | \$29.17           |



**Test Procedure:** Collect a fresh 200ml water sample. Dip one test strip into the sample for **30 seconds** with a constant, gentle back-and-forth motion. Remove the strip and shake once, briskly, to remove excess water. **Wait 30 seconds.** View through the aperture to match with the closest color. Complete color matching **before 60 seconds** have elapsed.



**WATER TEST PRODUCTS****NITRATE/NITRITE NITROGEN**

Nitrates and Nitrites are often found simultaneously in water and are by products of biological decay and Nitrogen decomposition. Nitrates and Nitrites can lead to infant mortality, adult illness, and dead aquatic life. Nitrites, however, can be very useful as corrosion inhibitors in cooling towers. WaterWorks™ Nitrate/Nitrite strips give the user a safe, accurate method for detecting levels in water. With no chemicals to add or mix, inaccurate results are minimized.



480009 Nitrate/ Nitrite Nitrogen.

**sample color chart**

**Nitrate and Nitrite**  
Nitrate Nitrogen/Nitrite Nitrogen (as N)

**TEST PROCEDURE:** Dip one test strip into water sample for 2 seconds, remove, wait 1 minute, and match Nitrate/Nitrite (end pad) and Nitrite colors. Complete color matching within 1 minute.

**NOTE:** For conversion of levels to  $\text{NO}_2$  and  $\text{NO}_3$ , multiply Total Nitrate value by 4.4 to get  $\text{NO}_3$  mg/L; and multiply Nitrite value by 3.3 to get  $\text{NO}_2$  mg/L.

**Total Nitrate (as N)** (end pad)

|            |     |     |     |      |      |      |
|------------|-----|-----|-----|------|------|------|
| 0          | 0.5 | 2.0 | 5.0 | 10.0 | 20.0 | 50.0 |
| PPM (mg/L) |     |     |     |      |      |      |

**Nitrite (as N)** (pad nearest handle)

|            |      |     |     |     |     |      |
|------------|------|-----|-----|-----|-----|------|
| 0          | 0.15 | 0.3 | 1.0 | 1.5 | 3.0 | 10.0 |
| PPM (mg/L) |      |     |     |     |     |      |

MCL = Maximum Contaminant Level US EPA

**NOTE:** Both pads react with Nitrite. The end pad, which has zinc added, converts the Nitrate to Nitrite and, therefore, reacts with both Nitrate and Nitrite. If the exact Nitrate Nitrogen level is required, then subtract the Nitrite level from the Nitrate plus Nitrite (end pad) level.

National Primary Drinking Water Regulations set forth by USEPA recommend a Nitrate (measured as Nitrogen) level of 10 PPM or less and a Nitrite (measured as Nitrogen) level of 1 PPM or less. The World Health Organization maximum level is 50 mg/Litre (acute) for Nitrate (as  $\text{NO}_3^-$ ) and 3 mg/Litre (acute) for Nitrite (as  $\text{NO}_2^-$ ).

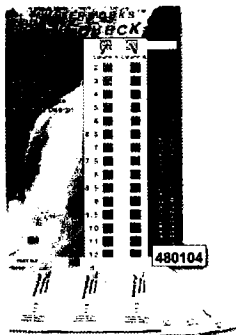
**EPA Primary Drinking Water Standard is**  
**10ppm for Nitrate and**  
**1ppm for Nitrite**



| Description                     | Detection Levels                                    | Test Methodology             | Test Time | Part Number | Case Qty. | List Price (Each) |
|---------------------------------|---|------------------------------|-----------|-------------|-----------|-------------------|
| Nitrate/Nitrite Nitrogen Btl 50 | Na 0,0.5,2,5,10,0,20.0<br>Ni 0,0.15,.3,1.0,1.5,3,10 | Colorimetric, Zinc Reduction | 1 Minute  | 480009      | 1         | \$31.25           |

**pH CHECK**

WaterWorks™ pH strips give the user an accurate alternative to pH meters without sacrificing quality results. Since all required reagents are precisely impregnated on the strip pad, there is no need for calibration. Additionally, WaterWorks™ pH strips may be purchased in individually-wrapped foil packets, making them ideal for use under almost any condition.



480005 pH Check.

**sample color chart**

**Extended Range pH**  
Part Number 481104

**Test Procedure:** Dip one test strip into water sample for 10 seconds with constant, gentle, back-and-forth motion. Remove the strip and shake once, briskly, to remove excess sample. Wait 20 seconds and match with the closest color on the color chart for Column A and Column B. For best performance, complete the readings within 10 seconds.

**Column B**

|   |   |   |   |   |     |   |     |   |     |   |     |    |    |    |
|---|---|---|---|---|-----|---|-----|---|-----|---|-----|----|----|----|
| 2 | 3 | 4 | 5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 | 11 | 12 |
|---|---|---|---|---|-----|---|-----|---|-----|---|-----|----|----|----|

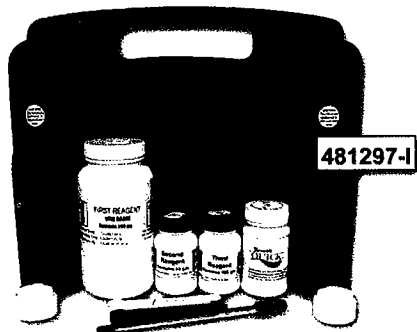
**Column A**

|   |   |   |   |   |     |   |     |   |     |   |     |    |    |    |
|---|---|---|---|---|-----|---|-----|---|-----|---|-----|----|----|----|
| 2 | 3 | 4 | 5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 | 11 | 12 |
|---|---|---|---|---|-----|---|-----|---|-----|---|-----|----|----|----|



| Description | Detection Levels | Test Methodology         | Test Time  | Part Number | Case Qty. | List Price (Each) |
|-------------|------------------|--------------------------|------------|-------------|-----------|-------------------|
| pH Check    | 2 - 12           | Colorimetric, Phenol Red | 30 Seconds | 480104      | 12        | \$34.69           |



**WATER TEST PRODUCTS****ARSENIC QUICK****481297-1 Arsenic Quick.**

A test strip positioned in the cap of the reaction bottle reacts with arsine gas released from a water sample. As arsine gas is generated and comes in contact with the test pad, the Mercuric Bromide indicator changes in color from white to shades of yellow or brown. After the incubation, the test strip is removed and the pad matched to the color chart to obtain a quantitative measure of inorganic arsenic in the sample.

**How might I be exposed to arsenic?**

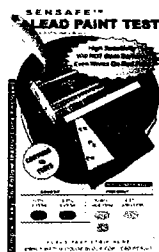
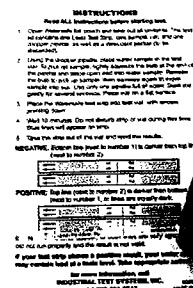
- The majority of arsenic exposure occurs through contaminated drinking water.
- Breathing contaminated workplace air.
- Breathing sawdust or burning smoke from wood treated with arsenic.
- Living near uncontrolled hazardous waste sites containing arsenic.
- Living in areas with unusually high natural levels of arsenic in underground mineral deposits.

**Arsenic Facts:**

- Arsenic cannot be destroyed in the environment. It can only change its form.
- Arsenic in the air settles to the ground or can be washed out by rain.
- Many inorganic arsenic compounds readily dissolve in water when oxygen is present.
- Fish and shellfish accumulate organic arsenic, but it is in a form that is not harmful.

**★NEW!**

| Description                           | Detection Levels                    | Test Methodology               | Test Time  | Part Number | Case Qty. | List Price (Each) |
|---------------------------------------|-------------------------------------|--------------------------------|------------|-------------|-----------|-------------------|
| Arsenic Low Range Quick<br>- 50 tests | 3 - 80, >80 ppb                     | Colorimetric, Modified Gutzeit | 12 Minutes | 481297-1    | 12        | \$312.50          |
| Arsenic Quick II                      | 1 - 30, >30, >40, >60, >80, >100ppb | Colorimetric, Modified Gutzeit | 14 Minutes | 481303      | 12        | \$534.72          |

**LEAD TEST****480310****480310 Lead Paint Test.****480311****480311 Lead Soil Check.****487997****487997 Lead Water Test.**

Lead is a naturally occurring heavy metal in the Earth's crust. With our lead test kits, you can easily detect the presence of lead without having to send a sample to a laboratory for analysis. The US EPA Primary Drinking Water Standard for lead is 0.015 ppm.

**★NEW!**

| Description                  | Detection Levels  | Test Methodology               | Test Time    | Part Number | Case Qty. | List Price (Each) |
|------------------------------|---|--------------------------------|--------------|-------------|-----------|-------------------|
| Lead Paint Test,<br>10 tests | 0 (0.0%), 600 (0.06%), 5000 (0.5%) ppm (mg/l)   | Colorimetric                   | 5 Minutes    | 480310      | 12        | \$31.25           |
| Lead Soil Check,<br>5 tests  | 0 - 400 ppm (mg/l) Colorimetric<br>1-10 Minutes 5 Packets \$24.99 (tests for lead and other heavy metals) | Colorimetric                   | 1-10 Minutes | 480311      | 12        | \$52.08           |
| Lead Water Test,<br>2 tests  | Tests for the EPA limit of 15ppb lead in water using lateral flow strip                                   | Lateral Flow Immunoassay Strip | 10 Minutes   | 487997      | 12        | \$50.00           |

**WATER TEST PRODUCTS****METALS TEST**

SenSafe™ Water Metals Check is the ideal solution for fast, accurate heavy metals screening. Simply dip a patented strip into your water sample for 30 seconds with back and forth motion, remove the strip and wait 2 minutes for the color to develop. Match the color to determine concentration. SenSafe™ Water Metals Check is a valuable screening tool to determine, semi quantitatively, the level of metals present in your distilled water, tap water, and samples for instrumental analysis. Works even with emulsion suspensions and colored samples.



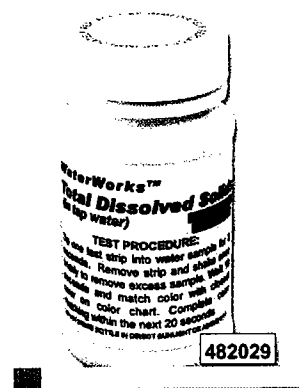
| Description                      | Detection Levels                            | Test Methodology    | Test Time | Part Number | Case Qty. | List Price (Each) |
|----------------------------------|---|---------------------|-----------|-------------|-----------|-------------------|
| Metals Check, Bottle of 50 tests | <10, 20, 50, 100, 200, 400, 1000 µg/l (ppb) | Colorimetric, PADAP | 3 Minutes | 480309      | 12        | \$41.67           |

**PESTICIDE TEST**

The World Health Organization estimates that one-half of the ground and well water in the U.S. is contaminated with pesticides, resulting in 20,000 deaths each year. WaterWorks™ Pesticide Test provides an easy solution for detecting US EPA-established Atrazine and Simazine concentrations in water without having to send a sample out to a lab.



| Description                           | Detection Levels  | Test Methodology   | Test Time  | Part Number | Case Qty. | List Price (Each) |
|---------------------------------------|---|--------------------|------------|-------------|-----------|-------------------|
| Pesticide Water Test, 2 tests **ETV** | Tests for the EPA limit of 3 ppb atrazine & 4ppb simazine, lateral flow strip | Lateral Flow Strip | 10 Minutes | 487996      | 12        | \$50.00           |

**TOTAL DISSOLVED SOLIDS**

Our Waterworks™ TDS strips are factory calibrated and inexpensive. Just dip and match the color to determine the TDS level in your tap water. The US EPA Secondary Drinking Water Standard is 500ppm for TDS.

**WaterWorks™**  
**Total Dissolved Solids**  
(in tap water)  
Part Number 482029

**TEST PROCEDURE:**  
Dip one test strip into water sample for 2 seconds. Remove strip and shake once briskly to remove excess sample. Wait 10 seconds and match color with closest color on color chart. Complete color matching within the next 20 seconds.

PPM

mg/L

sample  
color chart

482029 Total Dissolved Solids.



| Description                               | Detection Levels                    | Test Methodology | Test Time  | Part Number | Case Qty. | List Price (Each) |
|---|-------------------------------------|------------------|------------|-------------|-----------|-------------------|
| Total Dissolved Solids (TDS) Bottle of 50 | <50, 100, 250, 500, >750 ppm (mg/l) | Colorimetric     | 12 Seconds | 482029      | 12        | \$41.67           |

**WATER TEST PRODUCTS****CITY WATER CHECK KIT**

480113 City Water Check.

4in1 City Water Check™ is ideal for service techs and homeowners who need a quick, accurate method for detecting basic ion concentrations in municipal water.

**4-in-1 City Water Check™**  
PART NUMBER 480113

**TEST PROCEDURE:**

1. Dip one strip into a 250 ml (about 8 oz.) water sample for 5 seconds with a gentle back-and-forth motion.
2. Remove the strip and shake once, briskly, to remove excess water. Wait an additional 20 seconds.
3. Match pH, Total Alkalinity, Total Chlorine, and finally Total Hardness in this order, with the color chart on the right. Complete all readings within 10 seconds.

**Color Chart:**

pH - end pad - MATCH 1<sup>st</sup>

|     |     |     |     |     |     |      |      |
|-----|-----|-----|-----|-----|-----|------|------|
| 2.0 | 4.0 | 5.0 | 6.5 | 8.5 | 9.5 | 10.5 | 12.0 |
|-----|-----|-----|-----|-----|-----|------|------|

**TOTAL ALKALINITY** (ppm) - second pad - MATCH 2<sup>nd</sup>

|   |    |    |     |     |     |     |
|---|----|----|-----|-----|-----|-----|
| 0 | 40 | 80 | 120 | 160 | 240 | 500 |
|---|----|----|-----|-----|-----|-----|

**TOTAL CHLORINE** (ppm) - third pad - MATCH 3<sup>rd</sup>

|   |     |     |     |      |
|---|-----|-----|-----|------|
| 0 | 0.2 | 1.0 | 4.0 | 10.0 |
|---|-----|-----|-----|------|

**TOTAL HARDNESS** (ppm) - pad nearest handle - MATCH 4<sup>th</sup>

|   |    |     |     |     |      |
|---|----|-----|-----|-----|------|
| 0 | 50 | 120 | 250 | 425 | 1000 |
|---|----|-----|-----|-----|------|

SOFT ← HARD ← VERY HARD



| Description                           | Detection Levels  | Test Methodology | Test Time  | Part Number | Case Qty. | List Price (Each) |
|---------------------------------------|---|------------------|------------|-------------|-----------|-------------------|
| 4-in-1 City Water Check, Bottle of 25 | pH / Total Alkalinity, Total Chlorine, & Total Hardness | Colorimetric     | 25 Seconds | 480113      | 12        | \$27.08           |

**CITY WATER CHECK KITS**

480015 City Water Check.

WaterWorks™ 5 is the complete single-dip solution for testing the quality of your water. In one simple dip procedure you get accurate results for Total Chlorine, Free Chlorine, Total Alkalinity, Total Hardness, and pH.

**WaterWorks™ 5-Way Water Check**  
Part Number 480015

**Test For:**

- Total Chlorine
- Free Chlorine
- Total Alkalinity
- Total Hardness
- pH

**TEST PROCEDURE:**

1. Dip one strip in the water for 5 seconds with a gentle back-and-forth motion.
2. Remove the strip, shake once, briskly, to remove excess water. Wait 25 seconds.
3. Using the color chart, match pH, Total Hardness, Total Alkalinity, Free Chlorine, and Total Chlorine in this order. Complete matching within 30 seconds.

**Color Chart:**

**ppm Total Chlorine - Match 5<sup>th</sup>**

|   |     |   |   |   |    |
|---|-----|---|---|---|----|
| 0 | 0.5 | 1 | 2 | 4 | 10 |
|---|-----|---|---|---|----|

**ppm Free Chlorine - Match 4<sup>th</sup>**

|   |     |   |   |   |    |
|---|-----|---|---|---|----|
| 0 | 0.5 | 1 | 2 | 4 | 10 |
|---|-----|---|---|---|----|

**ppm Total Alkalinity - Match 3<sup>rd</sup>**

|   |    |    |     |     |     |
|---|----|----|-----|-----|-----|
| 0 | 40 | 80 | 120 | 180 | 240 |
|---|----|----|-----|-----|-----|

**ppm Total Hardness - Match 2<sup>nd</sup>**

|   |    |    |     |     |     |
|---|----|----|-----|-----|-----|
| 0 | 25 | 50 | 120 | 250 | 425 |
|---|----|----|-----|-----|-----|

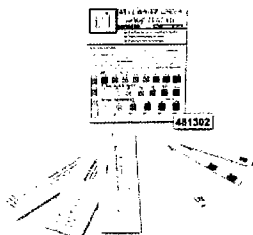
**pH (pad nearest handle) - Match 1<sup>st</sup>**

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| 6.2 | 6.8 | 7.2 | 7.8 | 8.4 |
|-----|-----|-----|-----|-----|

sample color chart



| Description                           | Detection Levels   | Test Methodology | Test Time  | Part Number | Case Qty. | List Price (Each) |
|---------------------------------------|--|------------------|------------|-------------|-----------|-------------------|
| 5-WAY Water Check, bottle of 50 tests | pH: 6 - 9<br>Total Alkalinity: 0 - 360 ppm (mg/l)<br>Free Chlorine: 0 - 5 ppm (mg/l)<br>Total Chlorine: 0 - 5 ppm (mg/l)<br>Total Hardness: 0 - 425 ppm (mg/l) | Colorimetric     | 30 Seconds | 480015      | 12        | \$29.17           |
| Tap Check Test Kit, 2 tests of each   | pH: 6 - 11<br>Total Alkalinity: 0 - 720 ppm (mg/l)<br>Iron: 0 - 5 ppm (mg/l)<br>Total Chlorine: 0 - 4 ppm (mg/l)<br>Total Hardness: 0 - 425 ppm (mg/l)         | Colorimetric     | 4 Minutes  | VW-10K      | 12        | \$16.67           |

**WATER TEST PRODUCTS****WELL WATER CHECK****481302 Well Water Check.**

The Well Water Check™ gives accurate results in under 3 minutes and is perfect for the homeowner. With its safe chemistry and small size Well Water Check™ can easily be mailed to customers who are concerned whether or not their water purification system is working correctly.



| Description                       | Detection Levels   | Test Methodology | Test Time | Part Number | Case Qty. | List Price (Each) |
|-----------------------------------|--|------------------|-----------|-------------|-----------|-------------------|
| Well Water Check, 2 tests of each | pH, Total Alkalinity, Total Hardness, Iron, Nitrate Nitrogen (as N), | Colorimetric     | 3 Minutes | 481302      | 12        | \$16.67           |

**7-WAY TEST KIT**

WaterWorks™ 7-Way test kit is a good item for water store sales. Combining safe chemistry, value, and ease-of-use, customers will appreciate being able to monitor the quality of their water without worrying about the risks associated with traditional test methods.



| Description                     | Detection Levels  | Test Methodology | Test Time | Part Number | Case Qty. | List Price (Each) |
|---------------------------------|---|------------------|-----------|-------------|-----------|-------------------|
| 7-WAY Test Kit, 2 tests of each | pH, Total Alkalinity, Total Hardness, Free Chlorine, Total Chlorine, Nitrate Nitrogen (as N), Nitrite Nitrogen (as N) | Colorimetric     | 4 Minutes | WW-14K      | 12        | \$18.75           |

**9-WAY TEST KIT**

WaterWorks™ 9-Way test kit is a full range kit ideal for water shops looking for an affordable testing kit to offer their customers. Performing one test before the treatment unit, and one test after, allows the user to see the effectiveness of the unit.



| Description                     | Detection Levels  | Test Methodology | Test Time | Part Number | Case Qty. | List Price (Each) |
|---------------------------------|---|------------------|-----------|-------------|-----------|-------------------|
| 9-Way Test Kit, 2 tests of each | pH, Total Alkalinity, Total Hardness, Free Chlorine, Total Chlorine, Nitrate Nitrogen (as N), Nitrite Nitrogen (as N), Iron, Copper | Colorimetric     | 4 Minutes | WW-18K      | 12        | \$20.83           |

| Test             | Range       | Sensitivity | Recommended Range |
|------------------|-------------|-------------|-------------------|
| Free Chlorine    | 0 - 5 ppm   | 0.1 ppm     | 0.2 - 4 ppm       |
| Total Chlorine   | 0 - 5 ppm   | 0.1 ppm     | < 4 ppm           |
| pH               | 6.0 - 11    | 0.5         | 6.5 - 8.5         |
| Total Alkalinity | 0 - 720 ppm | 40 ppm      | 40 - 240 ppm*     |
| Total Hardness   | 0 - 425 ppm | 50 ppm      | 50 - 125 ppm*     |
| Iron             | 0 - 1 ppm   | 0.05 ppm    | < 0.3 ppm**       |
| Copper           | 0 - 2 ppm   | 0.1 ppm     | < 1.3 ppm         |
| Nitrate Nitrogen | 0 - 20 ppm  | 0.5 ppm     | < 10 ppm          |
| Nitrite Nitrogen | 0 - 10 ppm  | 0.15 ppm    | < 1 ppm           |

\* Not included in EPA standards at this time

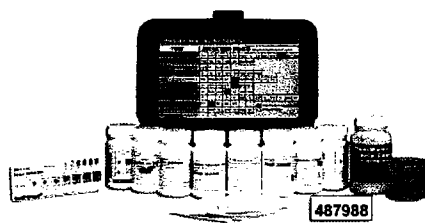
\*\* Included in EPA Secondary Drinking Water Standards

**WATER TEST PRODUCTS****COMPLETE HOME WATER QUALITY TEST KIT**

COMPLETE™ is a multi-parameter kit designed to accurately analyze water. Designed using patented and proprietary strips, COMPLETE™ is safe to use since it requires no powders, liquids, or tablets.



| Description                          | Detection Levels  | Test Methodology | Test Time                         | Part Number | Case Qty. | List Price (Each) |
|--------------------------------------|---|------------------|-----------------------------------|-------------|-----------|-------------------|
| COMPLETE Home Water-Quality Test Kit | Tests for: Iron, Copper, Chloride, Nitrate/Nitrite Nitrogen, Total Chlorine, Total Hardness, Free Chlorine, Sulfate, pH, Total Alkalinity, Hydrogen Sulfide, & Bacteria | Colorimetric     | 4 Minutes + 48 Hours for Bacteria | 481199      | 12        | \$52.08           |

**WELL DRILLERS TEST KIT**

Well Driller's Test Kits are a great solution when fast, accurate, on-site results are required. The Well Driller's Test Kits allows you to achieve results before sending samples for laboratory testing; giving you critical time to take remediation steps, if necessary. Testing for 11 critical parameters, the Well Driller's Standard Test Kit is ideal for on-site use.

487988 Well Drillers Test Kit.



| Description                      | Detection Levels   | Test Methodology | Test Time                    | Part Number | Case Qty. | List Price (Each) |
|----------------------------------|--|------------------|------------------------------|-------------|-----------|-------------------|
| Well Driller's Test Kit Standard | 1 of each: Free Chlorine Water Check (481026), SenSafe Iron Check (480025), Water Metals Check (480309), Manganese Check (480027), Nitrate/Nitrite Nitrogen (480009), Total Hardness, 480008, Extended Range pH Check (481104), Sulfide (481197-20), Ultra Low | Colorimetric     | See Individual Product Specs | 487988      | 1         | \$260.42          |

**WATER QUALITY AND POOL & SPA SAMPLER CASE**

| Description                               | Part Number | Case Qty. | List Price (Each) |
|---|-------------|-----------|-------------------|
| Water Quality and Pool & Spa Sampler Case | SC-12       | 12        | \$171.11          |

Includes one of each: 3in1 Pool and Spa Check, 5in1 Pool Check, 3in1 Low Chlorine, Salt (16 tests for sodium chloride) and 3in1 Copper.

**PIPE O.D. CHART**

| Pipe Type                            | Pipe Size and Nominal Size |      |      |       |       |       |       |       |       |       |       |       |       |       |
|--------------------------------------|----------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Copper, Steel & Plastic Pipe         | 1/2                        | 3/4  | 1    | 1 1/4 | 1 1/2 | 2     | 2 1/2 |       |       |       |       |       |       |       |
| Copper Tubing (C.T.S.)               | 0.63                       | 0.88 | 1.13 | 1.38  | 1.63  | 2.13  | 2.63  |       |       |       |       |       |       |       |
| Schedule 40 Steel Pipe               | 0.84                       | 1.05 | 1.32 | 1.66  | 1.9   | 2.38  | 2.88  |       |       |       |       |       |       |       |
| PVC-STD                              |                            |      |      |       |       |       |       |       |       |       |       |       |       |       |
| SDR-13.5, 17, 21, 26, 32, 5, 41      |                            |      | 1.32 |       | 1.9   | 2.375 | 2.875 |       |       |       |       |       |       |       |
| Polyethylene Pipe IPS                |                            | 1.05 | 1.32 | 1.66  | 1.9   | 2.38  |       |       |       |       |       |       |       |       |
| Steel & Plastic Pipe                 | 3                          | 4    | 5    | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 24    | 30    | 36    |
| Schedule 40 Steel Pipe               | 3.13                       | 4.13 | 5.13 | 6.13  |       |       |       |       |       |       |       |       |       |       |
| PVC-STD                              |                            |      |      |       |       |       |       |       |       |       |       |       |       |       |
| SDR-13.5, 17, 21, 26, 32, 5, 41      | 3.50                       | 4.50 | 5.56 | 6.625 | 8.625 | 10.75 | 12.75 | 14.00 | 16.00 | 18.00 | 20.00 | 24.00 | 30.00 |       |
| PVC-C.I. Size                        | 3.50                       | 4.50 |      | 6.63  | 8.63  | 10.75 | 12.75 |       |       |       |       |       |       |       |
| Polyethylene Pipe IPS C 900          |                            |      |      |       |       |       |       |       |       |       |       |       |       |       |
| DR-14, 18, 25                        |                            | 4.80 |      | 6.90  | 9.05  | 11.10 | 13.20 |       |       |       |       |       |       |       |
| Polyethylene Pipe IPS C 905          |                            |      |      |       |       |       |       |       |       |       |       |       |       |       |
| DR-51, 41, 32, 5, 25, 21, 18         |                            |      |      |       |       |       |       | 15.30 | 17.40 | 19.50 | 21.60 | 25.80 | 32.00 | 38.30 |
| Polyethylene Pipe DI Size            | 3.50                       | 4.50 | 5.56 | 6.63  | 8.63  | 10.75 | 12.75 | 14.00 | 16.00 | 18.00 | 20.00 | 24.00 | 30.00 |       |
| Iron Pipe                            | 3                          | 4    | 5    | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 24    | 30    | 36    |
| Ductile Iron Pipe                    |                            |      |      |       |       |       |       |       |       |       |       |       |       |       |
| Class 150, 200, 250, 300, 350        |                            | 4.80 |      | 6.90  | 9.05  | 11.10 | 13.20 |       | 17.40 | 19.50 | 21.60 | 25.80 | 32.00 | 38.30 |
| Class 100-250 AWWA                   | 3.96                       | 4.80 |      | 6.90  | 9.05  | 11.10 | 13.20 | 15.30 | 17.40 | 19.50 | 21.60 | 25.80 | 32.00 |       |
| Class A AWWA Pit Cast                | 3.80                       | 4.80 |      | 6.90  | 9.05  | 11.10 | 13.20 | 15.30 | 17.40 | 19.50 | 21.60 | 25.80 | 31.74 |       |
| Class B AWWA Pit Cast                | 3.96                       | 5.00 |      | 7.10  | 9.05  | 11.10 | 13.20 | 15.30 | 17.40 | 19.50 | 21.60 | 25.80 | 32.00 |       |
| Class C AWWA Pit Cast                | 3.96                       | 5.00 |      | 7.10  | 9.30  | 11.40 | 13.50 | 15.65 | 17.80 | 19.92 | 22.06 | 26.32 | 32.40 |       |
| Class D AWWA Pit Cast                | 3.96                       | 5.00 |      | 7.10  | 9.30  | 11.40 | 13.50 | 15.65 | 17.80 | 19.92 | 22.06 | 26.32 | 32.74 |       |
| Class 100 Asbestos Cement Pipe       | 3                          | 4    | 5    | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 24    | 30    |       |
| Machined End                         | 3.74                       | 4.64 |      | 6.91  | 9.11  | 11.24 | 13.44 | 15.07 | 17.15 | 19.90 | 22.12 | 26.48 | 33.12 |       |
| Fluid-Tite Rough Barrel              | 3.93                       | 5.05 |      | 7.16  | 9.32  | 11.46 | 13.70 | 15.36 | 17.50 |       |       |       |       |       |
| Flintite M.E.                        | 3.74                       | 4.64 |      | 6.91  | 9.11  | 10.89 | 12.99 | 15.07 | 17.15 | 19.90 | 22.12 | 26.48 | 33.12 |       |
| Flintite Rough Barrel                | 3.94                       | 4.90 |      | 7.13  | 9.33  | 11.30 | 13.42 | 15.45 | 17.60 |       |       |       |       |       |
| Ring-Tite Rough Barrel               | 3.95                       | 4.92 |      | 7.19  | 9.39  | 11.47 | 13.74 | 15.51 | 17.65 | 20.44 | 22.68 | 27.12 | 33.80 |       |
| Permaflex Rough Barrel               |                            | 4.84 |      | 7.15  | 9.35  | 11.47 | 13.74 | 15.55 | 17.55 |       |       |       |       |       |
| Minimum Standard Rough Barrel        |                            | 4.79 |      | 7.05  | 9.22  | 11.25 | 13.37 | 15.36 | 17.50 | 20.44 | 22.50 | 27.17 |       |       |
| Maximum Standard Rough Barrel        |                            | 5.26 |      | 7.40  | 9.57  | 11.77 | 14.04 | 15.80 | 17.94 | 20.44 | 22.50 | 27.17 |       |       |
| Class 150 Asbestos Cement Pipe       | 3                          | 4    | 5    | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 24    | 30    |       |
| Machined End                         | 3.84                       | 4.81 |      | 6.91  | 9.11  | 11.66 | 13.92 | 16.22 | 18.46 | 20.94 | 23.28 | 27.96 | 35.00 |       |
| Fluid-Tite Rough Barrel              | 4.03                       | 5.14 |      | 7.12  | 9.32  | 11.85 | 14.11 | 16.41 | 18.65 |       |       |       |       |       |
| Flintite Rough Barrel                | 4.04                       | 5.01 |      | 7.13  | 9.33  | 11.88 | 14.14 | 16.48 | 18.72 |       |       |       |       |       |
| Ring-Tite Rough Barrel               | 4.13                       | 5.07 |      | 7.17  | 9.37  | 11.92 | 14.18 | 16.48 | 18.72 | 21.30 | 23.64 | 28.32 | 35.42 |       |
| Permaflex Rough Barrel               |                            | 5.00 |      | 7.20  | 9.40  | 11.92 | 14.20 | 16.50 | 18.75 |       |       |       |       |       |
| Minimum Standard Rough Barrel        |                            | 4.97 |      | 7.07  | 9.27  | 11.82 | 14.08 | 16.38 | 18.62 | 21.20 | 23.54 | 28.22 |       |       |
| Maximum Standard Rough Barrel        |                            | 5.32 |      | 7.37  | 9.62  | 12.12 | 14.38 | 16.73 | 18.97 | 21.20 | 23.54 | 28.22 |       |       |
| Class 200 Asbestos Cement Pipe       | 3                          | 4    | 5    | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 24    | 30    |       |
| Machined End                         | 3.84                       | 4.81 |      | 6.91  | 9.11  | 11.66 | 13.92 | 16.22 | 18.46 | 22.18 | 24.66 | 29.62 | 37.06 |       |
| Fluid-Tite Rough Barrel              | 4.18                       | 5.32 |      | 7.36  | 9.46  | 11.88 | 14.11 | 16.44 | 18.74 |       |       |       |       |       |
| Flintite Rough Barrel                | 4.17                       | 5.32 |      | 7.26  | 9.44  | 11.88 | 14.14 | 16.53 | 18.84 |       |       |       |       |       |
| Ring-Tite Rough Barrel               | 4.17                       | 5.33 |      | 7.32  | 9.50  | 11.92 | 14.18 | 16.55 | 18.90 | 22.54 | 25.02 | 29.98 | 37.48 |       |
| Permaflex Rough Barrel               |                            | 5.32 |      | 7.26  | 9.50  | 11.95 | 14.20 | 16.55 | 18.90 |       |       |       |       |       |
| Minimum Standard Rough Barrel        |                            | 5.22 |      | 7.26  | 9.39  | 11.77 | 14.03 | 16.44 | 18.74 |       |       |       |       |       |
| Maximum Standard Rough Barrel        |                            | 5.57 |      | 7.60  | 9.79  | 12.12 | 14.38 | 16.88 | 19.19 |       |       |       |       |       |
| Sewer Pipe                           | 4                          | 5    | 6    | 8     | 10    | 12    | 14    | 15    | 16    | 18    | 20    | 24    | 30    |       |
| A/C Sewer Class 1500                 | 4.81                       |      | 6.92 | 9.02  | 11.12 | 13.22 | 15.30 | 16.34 | 17.38 |       |       |       |       |       |
| A/C Sewer Class 2400                 | 4.87                       |      | 6.98 | 9.04  | 11.16 | 13.26 | 15.36 | 16.42 | 17.46 | 19.54 | 21.66 | 25.78 |       |       |
| A/C Sewer Class 3300                 | 5.05                       |      | 7.14 | 9.22  | 11.36 | 13.50 | 15.46 | 16.66 | 17.72 | 19.82 | 21.88 | 26.10 | 32.34 |       |
| A/C Sewer Class 4000                 |                            |      |      |       | 11.50 | 13.64 | 15.78 | 16.84 | 17.90 | 20.02 | 22.10 | 26.32 | 32.60 |       |
| A/C Sewer Class 5000                 |                            |      |      |       | 11.70 | 13.86 | 16.00 | 17.06 | 18.14 | 20.36 | 22.32 | 26.60 | 32.90 |       |
| Asbestos Cement ACME                 | 4.62                       | 6.66 |      | 8.96  | 11.05 | 13.15 | 15.23 | 16.11 | 17.31 | 19.39 | 22.45 | 25.67 | 32.13 |       |
| PVC Plastic SDR 35                   | 4.22                       |      | 6.28 | 8.40  | 10.50 | 12.50 |       |       |       |       |       |       |       |       |
| PVC Plastic SDR 41                   | 4.22                       |      | 6.28 | 8.16  | 10.20 | 12.24 |       | 15.30 |       | 18.70 |       | 24.80 |       |       |
| Cast Iron Soil Pipe (No Hub)         | 4.38                       |      | 6.30 | 8.38  |       |       |       |       |       |       |       |       |       |       |
| Cast Iron Soil Pipe (Service Weight) | 4.30                       |      | 6.30 | 8.38  | 10.50 | 12.50 |       |       |       |       |       |       |       |       |
| Cast Iron Soil Pipe (Extra Heavy)    | 4.62                       |      | 6.62 | 8.75  | 10.88 | 12.88 |       |       |       |       |       |       |       |       |
| Clay Minimum                         | 5.00                       |      | 7.19 | 9.25  | 11.50 | 13.75 |       | 17.19 |       | 20.65 |       | 27.50 | 34.38 |       |
| Clay Maximum                         | 5.38                       |      | 7.56 | 9.75  | 12.00 | 14.31 |       | 17.81 |       | 21.44 |       | 28.50 | 35.63 |       |
| Concrete (Average)                   | 6.00                       |      | 8.00 | 10.25 | 12.75 | 15.50 |       | 18.75 |       | 22.00 |       | 29.00 | 35.50 |       |
| Irrigation Pipe                      | 4                          | 5    | 6    | 8     | 10    | 12    | 14    | 15    | 16    | 18    | 20    | 24    | 30    |       |
| Asbestos Cement Irrigation Type 5    | 4.74                       |      | 6.70 | 9.02  | 11.12 | 13.22 |       |       |       |       |       |       |       |       |
| Asbestos Cement Irrigation Type 15   | 4.86                       |      | 6.81 | 9.04  | 11.16 | 13.26 |       |       |       |       |       |       |       |       |
| Asbestos Cement Irrigation Type 25   | 4.97                       |      | 7.10 | 9.27  | 11.31 | 13.74 |       |       |       |       |       |       |       |       |
| Plastic Irrigation Pipe (PIP)        | 4.13                       |      | 6.14 | 8.16  | 10.20 | 12.24 |       | 15.30 |       | 18.70 | 22.05 | 24.80 |       |       |



**INDEX**

|   |       |                                     |       |
|---|-------|-------------------------------------|-------|
| 304/316 Stainless Steel T-Head Bolts    | 7     | Coal Tar Epoxy                      | 2     |
| 3M™ Splice Kit                          | 29    | Coal Tar Mastic                     | 2     |
| 3-Way Test Valve                        | 75    | Concrete Housing Lifter             | 67    |
| 7-Way Test Kit                          | 75    | Construction/Turf Marking Paint     | 19    |
| 9-Way Test Kit                          | 75    | Copper Adapter Sleeves              | 6     |
| Accessories                             | 27-31 | Corrosion Protection Products       | 2-9   |
| Air Test Gauges                         | 27    | CP Test Stations                    | 6     |
| Air Valve Cans                          | 57    | Curb Stop Markers                   | 16    |
| All-Purpose Marking Paint               | 19    | Curb Stop Wrenches                  | 51    |
| Angle Hose Valves                       | 14    | Cut Off Wheels                      | 35    |
| Anodes                                  | 4     | Danger Tape                         | 49    |
| Anti-Seize Lubricating Compound         | 60    | Detectable Tape                     | 18    |
| Arsenic Quick Test                      | 72    | Dewatering Filter Bags              | 45    |
| Asphalt Tools                           | 41    | Digging Bars                        | 52    |
| Aviation Snips                          | 37    | Drain/Filter Fabric                 | 42-44 |
| Backflow Security/Freeze Blankets       | 23    | Drain-EEZ™                          | 44    |
| Bare Copper Wire                        | 29    | Duct Tape                           | 30    |
| Barrier Fencing                         | 46    | Ductile Iron Blades                 | 35    |
| Bell Reducer Gauge                      | 27    | Earplugs                            | 47    |
| Bio-Max® Dechlorination Tablets         | 25    | Electronic Markers                  | 17    |
| Bit Wrap Asphalt Tape                   | 3     | Engineering Tape Measure            | 29    |
| Blue Bolts                              | 8     | Extra Heavy-Duty Digging Bar        | 52    |
| Brass Grounding Clamps                  | 9     | EZ Pocket Net Fence                 | 46    |
| Breakable Padlocks                      | 14    | Fire Dept. Connection - Brass Plug  | 15    |
| Brooms                                  | 39    | Fire Dept. Connection - Cap & Chain | 15    |
| Bucket Apron                            | 33    | Fiberglass Sledgehammer             | 40    |
| Bucket/5 Gallon                         | 33    | Filter Fabric                       | 42-44 |
| Cad Welder Accessories                  | 6     | Fire Hose Nozzles                   | 15    |
| Cad Welder Molds                        | 5     | Fire Hoses                          | 14    |
| Cap & Chain - FDC                       | 15    | Fire Hydrant Gate Valve             | 15    |
| Captor® Dechlorination - Liquid Calcium | 25    | Fire Protection Gauge               | 28    |
| Cathodic Insulation Covers              | 5     | Fire Valve Connections              | 14    |
| Cathodic Protection Cable               | 9     | Fire Valves & Accessories           | 14-16 |
| Caution Tape                            | 49    | Flange Insulation Kits              | 3     |
| Channellock® Pliers                     | 38    | Floor Drain Wrench                  | 64    |
| Chip Brush                              | 28    | Gas Shut-Off Wrench                 | 64    |
| Chlorine                                | 24    | Gaskets                             | 12    |
| Chlorine Manifolds                      | 24    | Gate Valve Wrenches                 | 52    |
| Chlorine Water Check                    | 69    | Gauges                              | 27-28 |
| C-Hook Pipe Lifter                      | 68    | Gloves                              | 32    |
| City Water Check Kit                    | 74    | Gravel Bags                         | 44    |
| Clean-Out Plug Wrenches                 | 65    | Grommets - Plastic                  |       |
| Clean-Up Bags                           | 47    | Ground Rod Clamps                   | 9     |
| Clip-Its                                | 45    | Ground Rod Driving Sleeves          | 6     |



**INDEX**

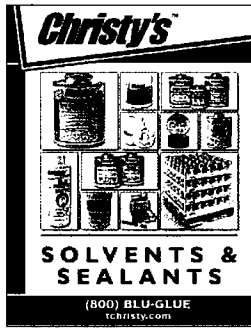
|                                     |       |                                    |       |
|-------------------------------------|-------|------------------------------------|-------|
| Ground Rods - Copper                | 6     | No OX Rust Inhibitor               | 2     |
| Ground Reflectors                   | 17    | Non-Detectable Tape                | 18    |
| Grounding Clamps - Brass            | 9     | Non-Detectable Tape                | 18    |
| Hacksaws                            | 36    | Norweco® Bio Neutralizer Tablets   | 25    |
| Hand Cleaning Towels                | 30    | OD Tape Measure                    | 29    |
| Hand Tool Accessories               | 32-39 | Orange Safety Bar Cap              | 46    |
| Handi-Pump                          | 31    | Orange Safety Construction Fencing | 46    |
| Handsaws                            | 36    | Packaged Bolt Sets                 | 13    |
| Hawk-Eyes™ Safety Glasses           | 48    | Packaging Tape                     | 48    |
| HD-50                               | 2     | Pallet Covers                      | 48    |
| Holesaws                            | 34    | Pallet Puller                      | 67    |
| Hydrant Adapters                    | 16    | Pavement Reflectors                | 17    |
| Hydrant Lifting Sling               | 53    | Perforated Pipe Sleeving           | 44    |
| Hydrant Wrap                        | 49    | Permatex® Aerosol Undercoat        | 3     |
| Iron Check Strips                   | 70    | Permatex® Form-A-Gasket Sealant    | 24    |
| Jumpers/Bonding Cables              | 9     | Pesticide Test                     | 73    |
| Lead Test                           | 72    | Petol Sight Glass                  | 63    |
| Lenox® Accessories                  | 37    | pH Check                           | 71    |
| Lifting Slings                      | 66    | Picks & Mattocks                   | 40    |
| Lifting Tools                       | 66-68 | Pipeline Access Cart               | 53    |
| Liquid Bazooka Dechlorinating Units | 25    | Pipe & Hose Repair Kit             | 31    |
| Liquid Filled Gauges                | 28    | Pipe Cutters                       | 34    |
| Loadbuster™                         | 47    | Pipe Joint Lubricant               | 31    |
| Low Pressure Air Test Gauge         | 27    | Pipe Lube Applicator               | 28    |
| Lubricants & Protectants            | 60    | Pipe O.D. Chart                    | 77    |
| Magnesium Spikes                    | 5     | Pipe Supports                      | 58    |
| Manhole Hooks                       | 52    | Pipewrap Tape                      | 31    |
| Manhole Sleeve Lifter               | 68    | Polyken Tape/Primer                | 11    |
| Manhole Waterstop Gaskets           | 12    | Polywrap Pipe Encasement           | 20-22 |
| Marking Paint                       | 19    | Post Hole Digging Bar              | 52    |
| Marking Posts                       | 17    | Pressure Gauges                    | 27    |
| Marking Products                    | 16-19 | Prime-It™ Pipewrap Primer          | 31    |
| Marking Tape                        | 18    | Privacy Screen                     | 45    |
| Masonry Blades                      | 35    | Pro-Lube™                          | 31    |
| Metal Blades                        | 35    | PTFE Tape                          | 30    |
| Metal Guard                         | 3     | Quick-Choke Pipe Lifting Sling     | 68    |
| Metals Test                         | 73    | Replacement Handles                | 40    |
| Meter Box Lid Remover               | 53    | Royston #747 Primer                | 3     |
| Mini Saddle Tap XL                  | 55    | Rust Inhibitor                     | 60    |
| MJ Gaskets                          | 12    | Sacrificial Anodes                 | 4     |
| Neomask®                            | 47    | Saddle Tap XL                      | 55    |
| Nipple Bag                          | 48    | Safety & Job-Site Accessories      | 47-48 |
| Nitrate/Nitrite Nitrogen            | 71    | Safety Cones                       | 47    |
| No Hub Torque Wrench                | 37    | Safety Glasses                     | 48    |

**INDEX**

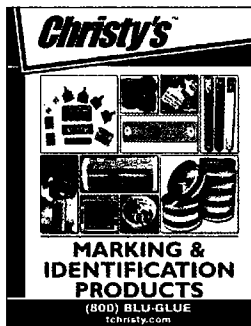
|                                |       |                                       |       |
|--------------------------------|-------|---------------------------------------|-------|
| Safety Mask                    | 47    | Valve Operator Key Set                | 64    |
| Safety Vest                    | 47    | Valve Stem Extensions                 | 59    |
| Sediment Control Filter Bags   | 45    | Vandal Resistant Vent Caps            | 56    |
| Shovels                        | 39    | Vent Caps                             | 56    |
| Shrink Wrap                    | 48    | Vita-D-Chlor Dechlorinating Granules  | 25    |
| Skimmer Test-Plug Wrench       | 52    | Wafer Check Valve - UL/FM             | 15    |
| Silt Erosion Fencing           | 46    | Warehouse Fitting Bags                | 48    |
| Slab Tongs                     | 66    | Warehouse Supplies                    | 48    |
| Sledges & Mallets              | 40    | Warning Tapes                         | 49    |
| Slick-Wrap™                    | 31    | Wasp Spray                            | 60    |
| Smoke Candles                  | 26    | Water Hardness                        | 70    |
| Soil Probes                    | 53    | Water Meter Key                       | 52    |
| Specialty Tapes & Coatings     | 10-11 | Water Meter Wrench                    | 51    |
| Specialty Tools                | 62-65 | Water Quality Test Kit                | 76    |
| Speed Hand Wheel               | 51    | Water Quality/Pool & Spa Sampler Case | 76    |
| Split Bolt Connectors          | 29    | Water Sampling Stations               | 59    |
| Striking Tools                 | 40    | Water Specialty Products              | 24-26 |
| Striking Wrenches              | 61    | Water Test Gauge                      | 27    |
| Supervisory Switches           | 14    | Water Test Kits                       | 74-76 |
| Survey Marking Paint           | 19    | Water Test Products                   | 69-76 |
| Tape Measures                  | 29    | Water Tracing Dye                     | 26    |
| Tapecoat Tapes                 | 10    | Waterline Replacement Kit Parts       | 54    |
| TC® Omniprime®                 | 2     | Waterline Replacement Kits            | 54    |
| Terminal Enclosure             | 6     | Waterworks Fabrication                | 57-59 |
| Test Gauges                    | 27    | Waterworks Tool Rack                  | 50    |
| Test Plates                    | 53    | Waterworks Tools                      | 50-54 |
| Test Valves                    | 14    | WD® 40                                | 60    |
| T-Head Bolts                   | 7     | Well Drillers Test Kit                | 76    |
| Thermoweld® Powder             | 9     | Well Water Check Test                 | 75    |
| Thread Sealant                 | 30    | Wrenches                              | 38    |
| Tie Down Straps                | 39    | Zinc Cold Galvanizing Compound        | 60    |
| Titan Valve Wheel Latch Wrench | 62    | Zinc Threaded Protection Caps         | 5     |
| Titan Flange Key               | 62    |                                       |       |
| Titan Flange Spreader          | 62    |                                       |       |
| Titan Valve Wheel Wrench       | 63    |                                       |       |
| Tool Belt                      | 33    |                                       |       |
| Total Dissolved Solids         | 73    |                                       |       |
| Tracer Wire                    | 29    |                                       |       |
| Trash Bags                     | 47    |                                       |       |
| Trenton Wax Tapes              | 10    |                                       |       |
| Tyton Joint Gaskets            | 12    |                                       |       |
| Ultra-Seal™                    | 30    |                                       |       |
| Underground Marking Tape       | 18    |                                       |       |
| Valve Lifter                   | 53    |                                       |       |

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- Pipe Wrap and Pipe Primer
- Solvent Cement Technical Information
- Accessories



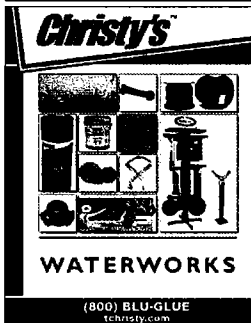
### MARKING & IDENTIFICATION PRODUCTS

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- Underground Marking Tapes  
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- Polywrap
- Specialty Signage
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- Lawn & Garden
- Long Handle Tools
- Tape Measures
- Gloves
- Safety Products
- Hose Clamps
- Lubricants & Cleaners
- Weather Products



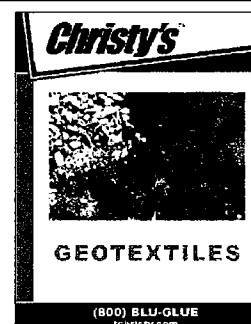
### WATERWORKS

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- Specialty Gaskets
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